

UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF INDIANA
SOUTH BEND DIVISION

Judge Robert J. Miller

US EPA RECORD CENTER REGION 5



591078

UNITED STATES OF AMERICA,

Plaintiff,

vs.

CONSOLIDATED RAIL CORPORATION
a/k/a CONRAIL,

Defendant and
Third Party Plaintiff,

vs.

PENN CENTRAL CORPORATION,
et al.,

Third Party Defendants.)

978372

CASE NO.:
S90-00056

The deposition of WILLIAM MARTIN,

Date: Tuesday, November 10, 1992

Time: 10:10 o'clock a.m.

Place: 205 West Jefferson, Suite 515
South Bend, Indiana 46601

Called as a witness by the Plaintiff, in
accordance with the Indiana Rules of Civil
Procedure, pursuant agreement as to date, time,
and place.

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Before Lois A. Schoenbeck
Notary Public, State of Indiana

APPEARANCES:

MR. KURT N. LINDLAND
U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF REGIONAL COUNSEL
Region 5: CS-3T
77 West Jackson Boulevard
Chicago, Illinois 60604,

For the Plaintiff;

MR. JAMES A. ERMILIO
BINGHAM, DANA & GOULD
Suite 1200
1550 M. Street, N.W.
Washington, D.C. 20005,

For Consolidated Rail Corporation;

MR. PIERCE E. CUNNINGHAM
FROST & JACOBS
2500 Central Trust Center
201 East Fifth Street
Cincinnati, Ohio 45202,

For Penn Central Corporation.

I N D E X

THE DEPOSITION OF

WILLIAM MARTIN

DIRECT EXAMINATION

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CROSS EXAMINATION

By Mr. Cunningham Page 108

REDIRECT EXAMINATION

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Plaintiff's Exhibits:

- | | |
|--|----|
| 1 - Notice of Rule 30 (b) (6) Deposition,
consisting of 7 pgs | 5 |
| 2 - Elkhart Conrail yard, 2 pgs | 35 |
| 3 - Hazardous Substance List, 32 pgs | 60 |
| 4 - Sanitary Sewer Plan, Elkhart Conrail yard | 64 |
| 5 - Elkhart Conrail yard | 90 |

WILLIAM MARTIN,

called as a witness by the Plaintiff, being
first duly sworn, was examined and testified as
follows:

DIRECT EXAMINATION

BY MR. LINDLAND:

Q State your full name for the record, please.

A William Lloyd Martin.

Q And what is your home address?

A (b) (6)

Q And what's your phone number, Mr. Martin?

A (b) (6)

Q My name is Kurt Lindland. I'm an attorney with
the United States Environmental Protection
Agency. I'm representing the agency in the
action that we're here for today.

Are you familiar with the oath that you
just took?

A Yeah, I believe so.

Q Do you recognize that oath as binding on you
today as it would be in a court of law?

A Yes, I do.

Q If there's a question that I ask and you don't
understand it, just say that you don't
understand it, and I will rephrase it. If

1 there's an objection by your attorney or another
2 attorney, you should answer the question unless
3 your attorney instructs you otherwise.

4 A All right.

5 Q First, I would like to just sort of get some
6 background information.

7 Have you ever been deposed before?

8 A No, I haven't.

9 Q Have you ever testified at trial before?

10 A No, I haven't.

11 Q In preparing for this deposition, did you speak
12 with anyone?

13 A With my attorney.

14 Q Did you speak with anyone other than your
15 attorney?

16 A No.

17 (Plaintiff's Exhibit 1 marked
18 for identification.)

19 Q I'm handing you what's been marked as
20 Plaintiff's Exhibit No. 1.

21 Have you seen that document before?

22 A Yes, I have.

23 Q And in what context?

24 A In the presence of my attorney here
25 (indicating).

1 Q Okay. Turning your attention to page two -- I
2 should say beginning on page two, if you could
3 identify the sections of which you have
4 knowledge.

5 A I went through this and I think the one that I'm
6 familiar with is item number 19: "The layout,
7 construction, operation, cleaning, and
8 maintenance of any drainage system existing now
9 or in the past."

10 Q Do you have any knowledge of any of the other
11 sections?

12 A No, I don't.

13 Q Did you bring any documents with you today?

14 A No, I didn't.

15 Q Did your counsel review your files at Conrail?

16 MR. ERMILIO: Objection. Don't answer.
17 I'm instructing him not to answer.

18 MR. LINDLAND: What's the basis?

19 MR. ERMILIO: The same as we discussed
20 before. I'm not going to let you ask
21 questions about documents that I reviewed
22 with Bill or the discussions I had with
23 Bill regarding those documents.

24 MR. LINDLAND: The question just asks
25 whether somebody reviewed his documents.

1 MR. ERMILIO: It's not "somebody."
2 It's whether Conrail's attorneys reviewed
3 documents. And your choice of Conrail's
4 documents is something that's protected and
5 our choice of reviewing certain documents
6 rather than others.

7 MR. LINDLAND: I'm not going to debate
8 this on the record, but I think it's a
9 misreading of the law.

10 Q Did anyone review your documents in your file in
11 preparation for this deposition?

12 A No.

13 Q Were your documents reviewed in preparation or
14 in response to the government's request for
15 documents?

16 A I don't understand that question.

17 Q Do you know whether the government requested
18 documents of Conrail in this lawsuit?

19 A Not to my knowledge, no.

20 Q Have you ever seen any document other than this
21 regarding this lawsuit?

22 A No.

23 Q Do you have any documents other than those that
24 are in your files that relate to the drainage
25 system or the operations of the bridge and

1 buildings?

2 A No.

3 Q Did you prepare or review any notes or memoranda
4 in preparation for this deposition?

5 A Yes, I did. The maps and the prevention spill
6 in case we have a spill out there. What's that
7 called?

8 Q The S.P.C.C.

9 A Yeah. I went through that. Those were the only
10 two things I went through.

11 Q But did you make any notes, write any letters or
12 memoranda regarding your deposition?

13 A No.

14 Q If you could sort of list in summary form or
15 describe in summary form your educational
16 background, starting with high school.

17 A Graduated from high school in 1954. Started my
18 apprenticeship under the New York Central in
19 June of 1954 as an electrician apprentice.
20 1960, became a supervisor for the New York
21 Central.

22 Q Okay, but my question was regarding your
23 education, not your work experience.

24 A Okay.

25 Q What high school did you go to?

1 A Elkhart High School.

2 Q Have you attended any seminars or training since
3 high school?

4 A Yes, I have. The training at General Motors,
5 Electric Motor Division -- E.M.D.

6 Q Excuse me?

7 A E.M.D., the Electric Motor Division of General
8 Motors is what it is. They make locomotives.

9 Q Where is that located?

10 A Illinois. It's right outside of Chicago. I
11 can't remember the little town there.

12 The other at G.E. was in Erie,
13 Pennsylvania.

14 Q So there were two trainings?

15 A Uh-huh.

16 Q What was the year of the first training, if you
17 remember?

18 A It was 1960 to '61.

19 Q That was a training on basically electronics?

20 A At that time it was electricity on locomotives.

21 Q And what year was the second training?

22 A Same time, 1960 and '61.

23 Q And where was that training?

24 A Erie, Pennsylvania.

25 Q Is that with General Motors?

1 A General Electric.

2 Q General Electric.

3 What was the subject matter of that
4 training?

5 A That one there had to do with the electronic end
6 of General Electric's new locomotives at that
7 time.

8 Q Do you remember any of the instructors?

9 A The instructor there was a fellow by the name of
10 Kennedy.

11 Q And was he an employee of General Electric?

12 A Yes, he was.

13 Q Do you remember his title?

14 A No, I don't.

15 Q And so Mr. Kennedy was an instructor for the
16 second training?

17 A Yes.

18 Q Do you remember any of the instructors for the
19 first training?

20 A No, I don't.

21 Q Have you ever had any training regarding the
22 handling of hazardous material?

23 A No, I haven't.

24 Q Have you ever had any training regarding
25 environmental law or environmental management?

1 A No, I haven't.

2 Q Are you a member of any trade associations or
3 trade groups?

4 A Unions, is that what you're talking about?

5 Q Okay, unions.

6 A Yeah, I belong to the American Railway
7 Supervisors Association, which is the union.

8 Q Who is the chairman of that union?

9 A I don't know.

10 Q Do you know who the president is?

11 A Unh-unh.

12 Q Do you know who any of the officers are?

13 A No, I don't.

14 Q When did you first become employed after high
15 school in 1954?

16 A June 4th, 1954, as an electrician apprentice.

17 Q That was with New York Central?

18 A Yes, it was.

19 Q Where was that located?

20 A Elkhart, Indiana.

21 Q Was that at the Elkhart yard?

22 A No, sir, it was at the downtown Elkhart
23 roundhouse. I guess that's what you'd call it.
24 It wasn't in the new yard. At that time -- we
25 moved to the new yard in '57.

1 Q So you worked at the yard but it was in a
2 different location?

3 A The yard wasn't there in 1954 as you know it
4 today. We were downtown in Elkhart.

5 Q Okay. What was the address or the approximate
6 location?

7 A It was on Wagner Street. That was the main
8 entrance. I don't know what the address was to
9 it.

10 Q What were your responsibilities as an
11 electrician apprentice?

12 A It was the maintenance of diesel electric
13 locomotives.

14 Q Who trained you for that position?

15 A It was done by electricians that you were
16 working with at the time. Some of the names
17 were a fellow by the name of Charlie Harper.
18 Everybody is retired that I served my
19 apprenticeship with.

20 Q Is Mr. Harper still in the area?

21 A Yes. Well, I think he lives in Florida.

22 Q Do you remember any of the other people who
23 trained you?

24 A A fellow by the name of Joe VanLue.

25 Q VanLue?

1 A Yes.

2 Q Can you spell that?

3 A V-a-n-L-u-e. I believe that's it.

4 Q Do you know whether Mr. VanLue is in the Elkhart
5 area?

6 A He lives in Niles, Michigan. He's retired also.

7 Q Do you remember any other individuals who
8 trained you?

9 A A fellow by the name of John Dinehart. I was
10 his apprentice. He also lives in the Elkhart
11 area.

12 Q Do you remember any others?

13 A That's about it.

14 Q To whom did you report when you were an
15 electrician apprentice?

16 A I reported to -- at the time, it was a general
17 foreman called -- his name was Al Lange. He's
18 now deceased.

19 Q Did you receive any training then in the
20 handling of hazardous materials?

21 A No, I didn't.

22 Q Were you promoted or did you ever leave that
23 position?

24 A Yes, in 1958 I was promoted to electrician.

25 Q Was this with the New York Central still?

1 A Yes, it was.

2 Q And where was New York Central located then?

3 A At the present site of Robert Young Yard.

4 Q And that was in 1957, you say, that they moved
5 to the new yard?

6 A Uh-huh.

7 Q What were your responsibilities as an
8 electrician in 1958?

9 A Repair and maintenance of diesel electric
10 locomotives.

11 Q Who trained you as an electrician, basically the
12 same people you mentioned before?

13 A Yes.

14 Q Who did you report to as an electrician?

15 A At that time, it was the same general foreman
16 that we had at downtown Elkhart, Al Lange.

17 Q Al Lange?

18 A Uh-huh.

19 Q Do you remember who Al Lange's supervisor was?

20 A No, I don't.

21 Q Were you ever promoted or did you leave the
22 position of electrician?

23 A I was promoted in 1963 to diesel foreman.

24 Q What were your responsibilities as a diesel
25 foreman?

1 A The dispatchment and maintenance of all
2 locomotives at Elkhart.

3 Q As a diesel foreman, did you work out of the
4 engine house?

5 A Yes, I did.

6 Q Is that engine house still on the site today?

7 A Yes, it is.

8 Q Who trained you as a diesel foreman?

9 A At that time, it was a gentleman by the name of
10 Norman Oley.

11 Q Do you know if Mr. Oley is in the Elkhart area
12 today?

13 A The last I heard he was in California somewhere.

14 Q Who was your supervisor?

15 A Presently?

16 Q No, as a diesel foreman.

17 A Norm Oley was one.

18 Over the years, now is that what you're
19 talking about?

20 Q At that time in 1963.

21 A Norm Oley.

22 Q Now, did it change over the years?

23 A Yes. They change quite frequently out there.

24 Q Who was your supervisor as a diesel foreman
25 after Mr. Oley?

1 A A person by the name of Harry McCann.

2 Q Is Mr. McCann in the Elkhart area?

3 A I think he's a supervisor at De Witt. I think
4 he's still with Conrail.

5 Q Where is De Witt?

6 A New York.

7 Q Where in New York?

8 A Outside of Syracuse, I believe.

9 Q Did you have any other supervisors as a diesel
10 foreman?

11 A Let's see. Bill Mellen -- M-e-l-l-e-n.

12 Q Do you know if Mr. Mellen is in the Elkhart
13 area?

14 A Yes, he's retired and lives in the Elkhart area.

15 Q Do you remember any other supervisors you had as
16 a diesel foreman?

17 A That was about it.

18 Q When you say that you dispatched locomotives,
19 what do you mean by that?

20 A All trains on the Conrail line ran on a time
21 schedule. And what the dispatching foreman does
22 is make sure the power is brought into the
23 house, serviced, and put on that train at the
24 time specified by the superintendent or that
25 leaves the yard at a certain time.

1 Q So it's basically the coordination of --

2 A It's the movement of the locomotive part of the
3 trains.

4 Q And when you say "power," you mean the engine?

5 A Right.

6 Q How many engines are there on a train normally?

7 A It depends on how long the train is and how much
8 horsepower they would like on that train: two,
9 three, four, you know.

10 Q How long were you a diesel foreman?

11 A Probably about 25 years -- 26 years. It was
12 until 1985 when I went on my present job.

13 Q What job is that?

14 A Foreman of the Bridge and Building Department.

15 Q If we could just go back to when you were a
16 diesel foreman.

17 Did your responsibilities ever change as a
18 diesel foreman?

19 A No. I was always sort of a pad foreman.

20 Q And what were your responsibilities in 1985 as
21 the foreman of the Bridge and Building
22 Department?

23 A The responsibilities I have now are the
24 maintenance of facilities. And that's the
25 buildings and so on in the Elkhart yard.

1 Q When you say maintenance of buildings and
2 facilities, do you mean above ground and
3 underground facilities?

4 A Yes.

5 Q Are you responsible for maintenance of the
6 drainage system?

7 A I'm responsible for the sanitary system. Randy
8 Harvell handles the drainage.

9 Q You mean the runoff drainage?

10 A Uh-huh, storm.

11 Q Who trained you as a foreman of the Bridge and
12 Building Department?

13 A No one. It was just hands-on experience.

14 Q Who was your supervisor?

15 A At the present time?

16 Q In 1985.

17 A My supervisor then was Norm Schultz.

18 Q Is Mr. Schultz still in the Elkhart area?

19 A He lives in Toledo now.

20 Q Does he work for Conrail?

21 A Yes, he does.

22 Q Did you have any other supervisors other than
23 Mr. Schultz?

24 A At that time or at this time?

25 Q Well, beginning in 1985. You said that Norm

1 Schultz was your supervisor.

2 Did you have anyone after that?

3 A I have a supervisor now by the name of Ron
4 Schwartz.

5 Q Do you have any other supervisors?

6 A No, that's it.

7 Q Does Mr. Schwartz live here in the Elkhart area?

8 A No. He lives in the Chicago area.

9 Q Does he work with Conrail?

10 A He's still the supervisor.

11 Q Why is Mr. Schwartz your supervisor and not
12 someone out at Elkhart?

13 A Because we work for the Dearborn Division, which
14 he's the supervisor for the Chicago end of it.

15 Q You said, "Chicago end of it."

16 What's the Chicago end of it?

17 A We have the Chicago, the Toledo, and the
18 Dearborn -- I guess you'd call them divisions.
19 And they have a supervisor in each area. And
20 they all report to an assistant division
21 engineer of structures, which is in Dearborn.

22 Q And then do the divisions report to
23 Philadelphia?

24 A The divisions report straight to the general
25 manager, who reports to Philadelphia.

1 Q And where is the general manager?

2 A In Dearborn.

3 Q How many people work under you as a foreman of
4 the Bridge and Building Department?

5 A Ten.

6 Q Was that true in 1985?

7 A I think I had about 12 or 14 in 1985. Since
8 then, we've laid off a couple electricians and
9 plumbers. It's -- we're down to ten people now.

10 Q Do you know their names?

11 A Lawrence Slabaugh.

12 Q Actually, if you could just give me the five who
13 have been there the longest.

14 A Bill Hutchinson, John Harvey, Fred Cramer, and
15 Lloyd Cole.

16 Q What's Mr. Slabaugh's position?

17 A Electrician.

18 Q Mr. Hutchinson's position?

19 A Electrician.

20 Q Mr. Harvey?

21 A Plumber.

22 Q Mr. Cramer?

23 A Electrician.

24 Q Mr. Cole?

25 A Electrician.

1 Q Approximately how long has Mr. Slabaugh been at
2 Conrail?

3 A Twenty-two years.

4 Q Mr. Hutchinson?

5 A Twenty-five, 26 years.

6 Q Mr. Harvey?

7 A About 25 years.

8 Q Mr. Cramer?

9 A Forty years.

10 Q And Mr. Cole?

11 A Probably 20 years.

12 Q You've got a lot of experience in that
13 department.

14 A Yeah.

15 Q If you could list your predecessors; that is,
16 the foremen of the Bridge and Building
17 Department back as far as you can?

18 A John Dinehart.

19 Q Dinehart?

20 A Uh-huh.

21 Q Is Mr. Dinehart still with Conrail?

22 A No, he's retired.

23 Q Is he in the Elkhart area?

24 A Yes, he is.

25 Q Do you remember any others?

1 A Before him was a foreman by the name of Ed
2 Farley, who is now deceased.

3 Q When did Mr. Dinehart -- do you know when he
4 started his position as the foreman of the
5 Bridge and Building Department?

6 A I want to say somewhere around 1960.

7 Q So he was the foreman between 1960 and roughly
8 1985?

9 A Yeah.

10 Q Was Mr. Farley at the New York Central yard when
11 it was located --

12 A -- downtown.

13 Q (Continuing) -- downtown?

14 A Yes.

15 Q Is the Bridge and Building Department, you say
16 that they are responsible for maintenance of
17 facilities?

18 A Yes.

19 Q What do you mean by "maintenance"?

20 A Anything that has to do with the heating,
21 electrical, the plumbing, maintenance of doors,
22 windows, the building itself, plus the sewer
23 system -- the sanitary sewer system.

24 Q What kind of things would you do on the heating,
25 for maintenance of the heating system?

1 A Replace boilers, radiators, burners, things of
2 that nature.

3 Q What types of materials do you use in replacing
4 heaters or the parts for heating that you've
5 just listed?

6 A Circulating pumps, lower motors, valves. When I
7 say radiators, we replace a lot of radiators.
8 That's about it.

9 Q Did you ever use any cleaners?

10 A No.

11 Our boilers are all cleaned by an outfit --
12 I want to say out of Jackson, Michigan. It
13 comes in and does the cleaning on the motors.

14 Q Do you know what the name of that outfit is?

15 A Industrial Solvents, I believe the name is.

16 Q Do you know how they clean them?

17 A They come in and acid wash them, you know, but I
18 don't know what the solution is.

19 Q Do they do that process at the Elkhart yard?

20 A Yes, they do.

21 Q And where did you say they are out of?

22 A I would have to check my file, but I understand
23 it's around Jackson, Michigan, somewhere.

24 Q Did you use any solvents or cleaners yourself?

25 I mean, does your department in installing

1 heating equipment?

2 A No.

3 Q Or use any in maintaining the heating equipment?

4 A (Witness shook head.)

5 Q What about glues or adhesives?

6 A We use a wood glue -- Elmer's wood glue. That's
7 about the only glue we use, and that's in our
8 carpenter shop.

9 Q I'm talking about just for the heating
10 equipment.

11 A Oh, no.

12 Q Do you ever replace pipes?

13 A Yes.

14 Q And do you use any kind of a bonding agent when
15 you attach two pipes together?

16 A We use a thread sealant.

17 Q Do you know the name of that thread sealant?

18 a No, I don't recall right offhand, no.

19 Q Do you use any paint when you replace or repair
20 or otherwise maintain the heating equipment?

21 A When we paint pipes, things like that there, we
22 use a regular latex paint from Sherman Williams.

23 Q Do you use any paint thinner?

24 A Yes, we do. It's a G.E. paint thinner that we
25 get it out of the store room -- out of company

1 stores.

2 Q Are there any other kinds of liquids used in
3 maintaining the heating equipment?

4 A No.

5 Q What about powders? Do you use any sort of
6 powdered material?

7 A The only other thing we do use is soften the
8 water. Salt is fed into the make-up tanks to
9 soften the water.

10 Q Do you know what kind of salt that is or what
11 material that is?

12 A It's a regular water-softener salt by Culligan.

13 Q How did you dispose of waste paint thinner?

14 A To my knowledge, we don't. We just -- it
15 evaporates and you use it up.

16 Q Do you have a service that picks up any solvent
17 of any used material, any waste material?

18 A No, we don't.

19 Q How much paint thinner would you use on a
20 monthly basis?

21 A Oh, I'm thinking about a gallon or two a year.
22 We don't really use very much. We use mostly
23 latex paint, and use water for solvent for that.

24 Q Do you have any other materials you use in the
25 repair or maintenance of heating equipment that

1 creates burns or vapors?

2 A No.

3 Q Have you ever heard of any complaints from any
4 of your employees regarding material used in
5 repair of heating equipment?

6 A Not to my knowledge, no.

7 Q You mentioned that you are a member of the
8 A.R.S.A. union, correct?

9 A Uh-huh.

10 Q Are all your employees members of that union?

11 A No, they are not.

12 Q What unions are represented in your office?

13 A The I.B.E.W., the International Brotherhood of
14 Electrical Workers; the Sheet Metal Workers
15 Association; the International Association of
16 Machinists. And I have a carpenter there. It's
17 a M & W employee. I don't know what union he
18 belongs to.

19 Q Do you know any of the chairmen of those unions?

20 A No, I don't.

21 Q Any of the presidents?

22 A No.

23 Q Have you ever heard of trichlorethylene?

24 A Yes.

25 Q How do you know trichlorethylene?

1 A Mostly from reading about it in the paper, and I
2 have been a member of the Elkhart City Council
3 for eight years. The City of Elkhart
4 experienced trichlorethylene in one of their
5 wells, and that's how we got familiar with that.

6 Q Have you ever used trichlorethylene?

7 A No.

8 Q Have you ever heard of trichlorethylene being
9 used at the Elkhart yard?

10 A No.

11 Q Have you ever heard of it being used at the
12 Elkhart yard since 1957?

13 A No.

14 Q Have you ever heard of carbon tetrachloride?

15 A Yes, I have.

16 Q And how have you heard of carbon tetrachloride?

17 A Carbon tetrachloride was used in fire
18 extinguishers years ago.

19 Q How long ago?

20 A In the late 50s.

21 Q How do you know carbon tetrachloride was used in
22 fire extinguishers in the late 50s?

23 A Well, that's what was in them. When you got
24 one, that's what it said on the outside, carbon
25 tetrachloride.

1 Q Do you know whether carbon tetrachloride was
2 ever used at the Elkhart rail yard since 1957?

3 A Not to my knowledge, no.

4 I really don't know if we had any fire
5 extinguishers then. Usually, the ones we had at
6 that time were filled with water. They were the
7 pump type.

8 Q Do you ever remember anybody ever mentioning a
9 carbon tetrachloride out at the Elkhart yard?

10 A No.

11 Q Do you ever remember seeing it printed on
12 anything?

13 A No.

14 Q Are you familiar with refrigerants?

15 A As of 1985, I am; before that, I was not.

16 Q How did you become aware of it in 1985?

17 A Until July 1st, we used to maintain our own air
18 conditioners and stuff in the yard, and in our
19 own charging of the refrigerants.

20 Q Which air conditioners did you maintain in 1985?

21 A Dormitory, hump tower, C.R.O. tower, engine
22 house.

23 Q Did you basically maintain all the refrigerating
24 equipment?

25 A Yes, we did.

1 Q Where are refrigerants stored?

2 A At that time, they were stored in the shop.

3 Q In the B & B building?

4 A Uh-huh.

5 Q And in what kind of containers were refrigerants
6 stored?

7 A I think they come in 40-pound cylinders.

8 Q Approximately how many 40-pound cylinders would
9 be stored at one given time?

10 A Maybe two.

11 Q Two?

12 A Uh-huh.

13 Q Are those then refilled after they're emptied?

14 A No. After they're emptied, we would return them
15 to the distributor and get two more.

16 Q Get two more tanks?

17 A Uh-huh.

18 Q How are the air conditioning units recharged
19 with refrigerant?

20 A Well, through gauges.

21 Q How did you hook it up? How did you recharge an
22 air conditioner, a cooling system?

23 A You have, of course, the 40-pound cylinder with
24 the gauge. You have a tap on the compressor
25 itself, and the gauge on there that tells you

1 how low the freon is in there. And you charge
2 it up until it comes to what the specifications
3 are on the air conditioner.

4 Q So you hook it up to the tank?

5 A Uh-huh.

6 Q And how do you know how much is going into the
7 cooling unit?

8 A We have a gauge on the compressor and when -- if
9 the specs say it should have two pounds or three
10 pounds, that's when we shut it off.

11 Q Is the refrigerant a gas at normal temperature
12 and a liquid at a very low temperature?

13 A You got me on that.

14 Alls I know is we make sure it's upright
15 and crack the valve so we get the gas.

16 Q Do you know what kind of refrigerant it is?

17 A It's Freon-22 is what we use.

18 Q And who do you purchase it from?

19 A Mid-City Supply.

20 Q And where are they located?

21 A Elkhart Industrial Park.

22 Q Are you familiar with a document called a
23 material safety data sheet?

24 A No.

25 Q Are there any other refrigerants stored in the B

1 & B building?

2 A No, that's it.

3 Q Are there any other refrigerants stored in the
4 Elkhart yard?

5 A No, just what would be in our shop.

6 Q How are refrigerated cars recharged, do you
7 know?

8 A That's a different department.

9 Q Do you remember whether the cylinders of
10 refrigerant that are stored in the B & B
11 building, whether you have ever had a spill or
12 leak of that material?

13 A Not to my knowledge.

14 Q Which employee that you've listed -- well,
15 strike that.

16 Which employee of yours handles the
17 refrigerant?

18 A Lawrence Slabaugh is my air conditioning person.

19 Q You mentioned earlier that you or your building
20 is responsible for maintaining the electrical
21 equipment, correct?

22 A Uh-huh.

23 Q What types of materials do you use in the
24 maintenance of that equipment?

25 A Wire, tape.

1 Q Do you use any cleaners?

2 A Yes, we do. We use a naphtha electric cleaner
3 made by NAPA.

4 Q Do you know the name of that material?

5 A No, I don't, but it's made by the NAPA people.

6 Q And where do you get that material?

7 A At the automotive shop in Elkhart, Elkhart
8 Supply.

9 Q It's called Elkhart Supply? That's the name of
10 it?

11 A Uh-huh.

12 Q What kind of container does that material come
13 in?

14 A It comes in about a 14-inch aerosol can.

15 Q Is there any vapors associated with that
16 material?

17 A I'm sure there are.

18 Q Why do you say that you're sure there are?

19 A It has an odor to it.

20 Q What kind of an odor is that? I mean, is it
21 like a solvent sort of odor?

22 A Yeah, a solvent odor.

23 Q Does it burn or cause any irritations that you
24 know of?

25 A It hasn't, no.

1 Q Do you use any other cleaners in the repair or
2 maintenance of electrical equipment?

3 A We use a cleaner to clean our coils in our air
4 conditioners and ice machines. It's a Calgon
5 cleaner.

6 Q And where do you get that material?

7 A Mid-City Supply.

8 Q And that's in Elkhart?

9 A Yes.

10 Q What kind of container does that material come
11 in?

12 A It comes in about a 12-ounce bottle, about this
13 high (indicating).

14 Q Is that also aerosol?

15 A No. It's in a liquid form.

16 Q How much of that material do you use on a
17 monthly basis?

18 A Maybe a dozen bottles probably.

19 Q If we could go back to the NAPA cleaner.

20 How much of that do you use on a monthly
21 basis?

22 A Maybe three or four cans.

23 Q Do you know the name of the material you used to
24 clean the coils in the ice machines?

25 A Alls I know is it's made by the Calgon Company.

1 It's a regular ice machine cleaner.

2 Q Are there any vapors associated with that
3 material?

4 A No, sir.

5 Q Do you know the chemical contents of that
6 material?

7 A No, I don't.

8 Q Does it cause any irritations that you know of,
9 or burns, itching?

10 A No, sir.

11 Q Are there any other cleaners you use to maintain
12 the electrical equipment?

13 A That's about it.

14 Q Do you use any glues or adhesives in maintaining
15 the electrical equipment?

16 A No.

17 Q Do you use any powders?

18 A No.

19 Q Do you dispose of any material as a result of
20 maintaining the electrical equipment?

21 A Are you talking about like wire and things like
22 that?

23 Q Anything.

24 A Yeah, we dispose of used wire. It goes in a
25 scrap car.

1 Q In a scrap car?

2 A Uh-huh.

3 (Plaintiff's Exhibit 2 marked
4 for identification.)

5 Q I'm handing you what's been marked as
6 Plaintiff's Exhibit No. 2. It's in two pages.
7 And it may help our discussion today if we line
8 those up like that.

9 Do you recognize this document?

10 A I recognize it as the classification yard, and
11 the hump would be up here (indicating).

12 Q Do you recognize this as any particular
13 classification yard?

14 A Well, I would -- it appears to be the Elkhart
15 Conrail yard.

16 Q Okay. The lines that go down this way and down
17 this way (indicating) are on there so that we
18 can represent areas in the yard. You will
19 notice along the long edge of the paper are
20 numbers, and along the side are letters.

21 A Uh-huh.

22 Q By using those reference lines, could you
23 identify where on this map or this
24 representation of the map where the storage car
25 is?

1 A Well, this is the car department down here
2 (indicating). I don't know if it is.

3 Q That's north. North is toward you.

4 A North is over here. And right in this area
5 right here is the store house (indicating).

6 Q Could you --

7 A That would be five.

8 Q (Indicating) What's this right here? That's
9 "F."

10 A 5-F, somewhere around in there.

11 Q 5-F. And what sort of material is stored in
12 that car?

13 A It's not stored. It's for scrap metals.

14 Q Scarp material?

15 A Scrap metals.

16 Q Is it just metals?

17 A Yes, it is.

18 Q Is that metal then recycled?

19 A That metal is -- you would have to ask somebody
20 that ships it. Alls I know we have a car there
21 and all scrap metals go in that car.

22 Q Are there any other scrap cars in the yard?

23 A That's the only one I know of.

24 Q Are there any other cars where material is
25 disposed of from your department?

1 A We have a vendor that puts a container in back
2 of our shop for our boxes and stuff like that
3 there.

4 Q And what vendor is that, do you know?

5 A I'll think of it in a minute. It's a major
6 vendor in Elkhart, but he's a vendor for the
7 yard, too.

8 Q And what kind of container is that?

9 A It's a six-, eight-yard square container that
10 they can pick up, you know, and dump in a truck
11 (indicating).

12 Q Like a dumpster?

13 A Yeah, dumpster.

14 Q Are there any other disposal containers located
15 at the Elkhart yard that you yourself or your
16 department uses?

17 A That's the one we do use. Each department sort
18 of has their own dumpster.

19 Q If you're out maintaining, say, a heating system
20 in, say, the opposite side of the yard from your
21 building, what do you do with waste material
22 generated there?

23 A You're talking about, what, the pipe?

24 Q Okay.

25 A If you have a broken pipe, you dispose of it in

1 the scrap car. That's about the only other
2 thing we would have.

3 Q What about paint or some kind of liquid
4 material?

5 A The paint would probably -- I really don't know
6 what they do with it. I'm hoping they use it
7 all up. That's what they're told to do is to
8 use it all up, and then dispose of the can
9 probably in the dumpster. But most of our
10 paint, to my knowledge, is latex paint.

11 Q Is the material that you used to clean the ice
12 machines, -- the coils in the ice machines -- is
13 there any waste generated from that material?

14 A No. It dissolves and goes right in the water
15 and is flushed out to the sewer.

16 Q So this is a material that is mixed in with the
17 water?

18 A Uh-huh.

19 Q This is the material that is generated by Calgon
20 Company?

21 A Calgon makes it.

22 It comes in 14-ounce containers. You spray
23 it on the coils, and it cleans the coils and
24 drips down the drain, and we flush the ice
25 machine out, and it goes down the drain into the

1 sewer.

2 Q And is that the sanitary sewer?

3 A Yes.

4 Q Do you use any other cleaning materials in
5 maintaining the electrical equipment?

6 A No.

7 Q Do you use any powders?

8 A No.

9 Q You mentioned that you're also responsible for
10 the plumbing system, correct?

11 A Uh-huh.

12 Q What kind of material do you use in maintaining
13 the plumbing system?

14 A Oh, we have bowl cleaners, we have sewer
15 cleaners. You put it down the drain to unplug
16 it or down a sink to unplug it, just like you
17 have at home.

18 Q Like Draino?

19 A Yes.

20 Q Do you use any other materials?

21 A No, that's it.

22 Q Do you replace piping?

23 A Yes, we do.

24 Q Do you use any sort of glue or adhesive when you
25 join two pipes together?

1 A Yes, we do.

2 Q And what kind of adhesive do you use?

3 A It's a thread sealant. I would have to get the
4 name for you. It's from Mid-City Supply.

5 Q Do you use PVC piping?

6 A Yes, we do.

7 Q And do you use a solvent or material to clean
8 the PVC pipe prior to putting on the adhesive?

9 A Yes.

10 Q And what material do you use?

11 A To clean it?

12 Q Yes.

13 A Whatever the solvent is that you clean PVC pipe
14 with. It's like alcohol, you know. And again,
15 we get that from Mid-City Supply.

16 Q Do you know the name of that material?

17 A No, I don't.

18 Q Do you know what kind of containers that comes
19 in?

20 A It comes in a one-quart can.

21 Q How much of that material do you use on a
22 monthly basis?

23 A Oh, maybe a can -- a quart.

24 Q Do you use adhesives to joint two pieces of PVC
25 pipe together?

1 A Yes.

2 Q Do you know what kind of material that is?

3 A No, I don't.

4 Q Again, is that from Mid-City Supply?

5 A Yes, it is.

6 Q Do you use paint or paint thinners while
7 maintaining the plumbing equipment?

8 A No.

9 Q You mentioned that you maintained the doors,
10 windows.

11 Would you call those the physical
12 structures?

13 A Yes.

14 Q What kind of materials do you use in the
15 maintenance of that equipment?

16 A Glass, door knobs, hinges, that type of thing.

17 Q Do you use any solvents?

18 A No.

19 Q Do you use any paint or paint thinners?

20 A We use a latex paint to coat the doors.

21 Q Do you use any grease cutters or grease
22 cleaners?

23 A Yes, we do.

24 Q What kind of grease cleaner do you use?

25 A It's a grease cutter. It's called Gunk, and

1 it's bought through the NAPA store in Elkhart --
2 Elkhart Automotive Supply.

3 Q And what do you use that material for?

4 A To clean any grease or oil off if we're washing
5 off a part.

6 Q You clean it off a part?

7 A Yes.

8 Q Do you use any other material to clean grease
9 off of parts?

10 A No. That's what we use.

11 Q Have you ever used another material while at the
12 B & B building to clean grease?

13 A Not to my knowledge, no. I've seen them use a
14 little thinner to clean something off or
15 something like that. Just rub it off.

16 Q Do you store any material in the B & B building
17 in 55-gallon drums?

18 A No, we don't.

19 Q In five-gallon pails?

20 A No.

21 Q If we could go back to 1963 when you were a
22 diesel foreman.

23 What kind of material did you use in the
24 diesel shop in 1963 to clean grease off of
25 engines?

1 A At that time, off the locomotive itself, the
2 outside body, we used an alkaline soap. And I
3 don't know the name of it, but it was a soap.

4 Q In 1963?

5 A Yeah.

6 Q What about parts?

7 A For parts we used a solvent, and I'm trying to
8 think of the name of the solvent. That's going
9 back a long time for me. Mineral spirits.

10 Q Mineral spirits?

11 A Yeah, that's what we used to wash the motors
12 with now, the electrical systems.

13 Q And how did you wash them?

14 A The electrical system?

15 Q Yes.

16 A We had a syphon gun and maybe a gallon can of
17 mineral spirits and an air-operated syphon gun.
18 And you washed the boards down with those.

19 Q And what would happen with the waste material?

20 A Well, it evaporated, you know, as it got on the
21 boards.

22 Q Okay. If it wasn't mineral spirits and you were
23 spraying it water on and the water did not
24 evaporate, where did that go?

25 A You wouldn't do that.

1 The reason we used mineral spirits is
2 because it evaporated and it wouldn't ground the
3 electrical system out.

4 Q My point is: suppose the mineral spirits don't
5 evaporate and they drip down. What's beneath
6 the area that you're spraying?

7 MR. CUNNINGHAM: He says mineral
8 spirits evaporate. If it evaporates, why
9 ask him to assume.

10 THE WITNESS: That's the reason we used
11 it.

12 BY MR. LINDLAND:

13 Q What structure is located directly beneath the
14 area that you're spraying?

15 A Cement pit.

16 Q A cement pit?

17 A As part of the locomotive, they have a pan under
18 there, a drip pan, that had a hose on it, and it
19 would go out into the atmosphere -- the drain
20 hose.

21 Q And what was underneath that drainage pan?

22 A Just the ground, I guess.

23 Q Was there a drainage system beneath that?

24 A No.

25 Q Was there any drainage system in the engine

1 house at all?

2 A Yeah, sure, the engine house itself has about a
3 200-foot pit in there where you bring the
4 locomotive over and work on them. And whatever
5 comes out of that pan would go in the cement
6 walkway where you were working, into the drain.

7 Q So the drain is located underneath?

8 A It's part of the diesel shop itself. It's
9 called a pit. The walkway pit in the diesel
10 shop has a drain in it.

11 Q Okay. Were there any other solvents used in the
12 engine house in 1963?

13 A No, not to my knowledge. That's the only
14 solvent that we had, you know.

15 Q Do you remember any of the individual names of
16 the people you worked with in the engine house
17 in 1963?

18 A The list of names I gave you there: Charlie
19 Harper, Joe VanLue.

20 Q Okay. Those people you mentioned that were sort
21 of responsible for training you?

22 A Yeah.

23 Q Were there some people that you just worked with
24 who were not responsible for training you?

25 A Oh, boy. Ed Wenzel. He's now retired.

1 Q Is he in the Elkhart area?

2 A Yes, he is.

3 A fellow by the name of Ed Gordon.

4 Q Is he in the Elkhart area?

5 A Yes, he is.

6 Q Any others?

7 A That's about all I can remember. Most of them
8 are dead now.

9 Q Do you remember whether trichlorethylene was
10 ever used in the engine house in 1963?

11 A Not that I ever recall, no.

12 Q Did the material that was used for cleaning the
13 engine parts, did that material ever change or
14 did you always use mineral spirits?

15 A They always used alkaline class seven to wash
16 the locomotives.

17 Q Do you know who manufactured that material?

18 A No, I don't.

19 Q Do you know where it came from?

20 A Out of company stores.

21 They might still use it today. I don't
22 know.

23 Q What about the electrical parts on the engine?

24 You mentioned that mineral spirits were used.

25 A Uh-huh.

1 Q After 1963, was there any other substance used
2 to clean electrical parts?

3 A As far as my knowledge, they even still use that
4 today -- mineral spirits.

5 Q Do you have any knowledge of whether
6 trichlorethylene was ever shipped through the
7 Elkhart yard in a tank car?

8 A No.

9 Q Do you have any knowledge whether carbon
10 tetrachloride was ever shipped through the
11 Elkhart yard?

12 A No, I don't.

13 Q What material would you use to clean grease off
14 of parts that are not electrical on the engine?

15 A That class seven soap we just talked about,
16 alkaline soap.

17 Q So that was used for the exterior of the engines
18 as well?

19 A Uh-huh. The only place it wasn't used was on
20 the electrical system itself.

21 Q And why not?

22 A Because it was a grounding agent, and it would
23 ground the motors and ground the electrical
24 system.

25 Q How were materials stored? And by "materials,"

1 I mean both the class seven -- strike that.

2 How were the class seven containers stored?

3 How were the containers that were containing
4 class seven cleaning material, how was that
5 stored?

6 A That was stored in 55-gallon drums and pumped
7 into about a 500-gallon container inside the
8 engine house. And that was mixed with water and
9 heated. And it had a Grayco pump on it, an air
10 pump, that would pressurize the system. And we
11 would wash the engines under pressure.

12 Q Do you know what the ratio of water to cleaning
13 fluid was?

14 A I think it was four to one.

15 Q Four parts cleaning solution --

16 A Four parts water to one part cleaning solution.

17 Q And was that material stored in different a
18 container?

19 A The soap?

20 Q Right.

21 A It was -- yeah, it was stored in about a 500-
22 gallon tank.

23 Q And how was that material delivered?

24 A By truck to the locomotive shop. It probably
25 came by rail to the store department.

1 Q Did a lot of material come by rail to the store
2 department?

3 A They ship by rail, so it probably does.

4 Q Do you know whether that material came in a tank
5 car?

6 A No, not to my knowledge, no.

7 Q Is the class seven cleaning material, is that a
8 powder or liquid?

9 A Liquid.

10 Q And do you know the manufacturer of that liquid?

11 A No, I don't.

12 Q How was waste material disposed of in the engine
13 house?

14 A While you were washing the locomotives?

15 Q Yes, the class seven material.

16 A We would wash them in the diesel house itself,
17 and it would drain into a pit.

18 Q And that's the pit you referred to earlier?

19 A Yes.

20 Q Are you familiar with how that drainage system
21 works?

22 A Fairly.

23 Q Do you know whether there is any vapor
24 associated with the class seven cleaning
25 material?

1 A Yes, there were.

2 Q Could you describe those vapors?

3 A Very annoying-type vapor that would burn if it
4 got on your face, you know.

5 Q Did you have to wear protective clothing?

6 A Yes, we did.

7 Q What kind of protective clothing did you wear?

8 A We wore rubber gloves, goggles, like a rain
9 suit, and you try to keep it off your body. If
10 you got any on you, you rinsed it off right
11 away.

12 Q Do you remember any complaints by any of the
13 workers regarding that material?

14 A I don't remember any, no.

15 Q Do you remember whether there were any?

16 A Not to my knowledge.

17 Like I say, if it got on your skin, it
18 would burn. You would run it under water and
19 get it off right away.

20 Q Was there someone in charge of the environmental
21 affairs at the engine house?

22 A You're talking 1963 and right in that area?

23 Q Right.

24 A No.

25 Q Was there somebody in charge after 1963 in the

1 engine house?

2 A No.

3 Q And you mentioned that this class seven you
4 think is still used today?

5 A I said it's possible. I haven't been there in
6 seven years.

7 Q But it was used throughout the time you were
8 there?

9 A Yeah, seemed like it, yeah.

10 Q And did you also use mineral spirits throughout
11 the time you were there?

12 A Uh-huh.

13 Q What sort of containers did mineral spirits come
14 in?

15 A In 55-gallon drums.

16 Q Were those drums stored in the engine house?

17 A Yes, they were.

18 Q Do you ever remember an occasion where mineral
19 spirits were spilled?

20 A No.

21 Q To the best of your knowledge, do you think that
22 they were ever spilled?

23 A I don't know. Not to my knowledge, they haven't
24 been, no.

25 Q Do you remember whether the class seven material

1 was ever spilled?

2 MR. CUNNINGHAM: I thought he testified
3 that if it was spilled it went into the
4 pit.

5 MR. LINDLAND: He said that they would
6 wash the engines, and that material would
7 go into the pit. But I'm referring to the
8 drums now, the 55-gallon drums of class
9 seven material.

10 A To my knowledge they weren't, no.

11 They were kept right in the house. So if
12 they were spilled, you would have noticed them,
13 you know.

14 Q Were they stored in a certain section of the
15 engine house?

16 A At the end of the house where they wash the
17 locomotives, it was stored there.

18 Q How many drums were stored there at one time?

19 A Four on a pallet.

20 Q Approximately how many pallets would you have of
21 the material?

22 A One pallet, four barrels, five-gallon drums.

23 Q That's four barrels of class seven and four
24 barrels of mineral spirits?

25 A Well, the mineral spirits, I really can't tell

1 you.

2 And 55 gallons of mineral spirits lasts a
3 long time. Maybe we used two of them a year,
4 something like that.

5 Q Do you use mineral spirits in the B & B
6 building?

7 A No, we don't.

8 Q Do you store any material in the B & B building
9 in 55-gallon drums?

10 A No, we don't.

11 Q Were the 55-gallon drums of class seven
12 material, were they ever re-used after they were
13 emptied?

14 A They were all shipped back to the store
15 department. Whatever they do with them after
16 that, I don't know.

17 Q Who is in charge of the store department, do you
18 know?

19 A Right now there's a fellow by the name of Bill
20 Horvath.

21 Q Do you know who was in charge before him?

22 A That was a fellow in there by the name of Gay
23 Ritz.

24 MR. CUNNINGHAM: We're going to get
25 that from Horvath, aren't we.

1 MR. LINDLAND: Right. But part of the
2 object is to get these people lined up.

3 MR. CUNNINGHAM: But part of the
4 process is not taking our whole life on
5 this thing either. These things are going
6 to be next week.

7 BY MR. LINDLAND:

8 Q How long was Mr. Ritz in charge of the store
9 department?

10 A I want to say four, five, six years.

11 Q Do you know whether any of the material used in
12 the B & B building requires special handling?
13 And by that I mean do you need protective
14 clothing?

15 A No.

16 Q Are there any other precautions that are taken
17 with respect to handling material?

18 A Handling material, no. We have to wear safety
19 goggles at all times and such like that there,
20 but that's just part of the safety regulations
21 of Conrail.

22 Q How did you buy materials or how do you obtain
23 materials? You mentioned that some of them you
24 buy from the NAPA dealer in Elkhart. How do you
25 normally get material?

1 MR. CUNNINGHAM: Again, I hate to
2 interrupt, but the guy that's in charge of
3 that we're going to depose next week, and
4 he is responsible, as I understand it, for
5 buying this stuff. And to ask this guy,
6 who is doing his best to answer these
7 questions, is simply repetitious and
8 unnecessary. It's burdensome to all of us.
9 That's where lawyers get bad names.

10 MR. LINDLAND: Well, Pierce, I
11 appreciate that. But I'm just asking him
12 how he gets material.

13 MR. CUNNINGHAM: He's going to tell you
14 just what I said I'll bet. Go ahead and
15 testify.

16 BY MR. LINDLAND:

17 Q How do you get material?

18 A B & B Department is unique in buying material.
19 We buy everything locally. It's what they call
20 small-value purchase. So I deal locally with
21 all of the vendors in Elkhart. I do not order
22 anything through company stores. That's why I
23 don't really do much business with Bill Horvath
24 because -- I hate to make a liar out of
25 everybody.

MR. CUNNINGHAM: Go ahead. I'm sorry.

BY MR. LINDLAND:

Q You mentioned a NAPA auto dealer?

A Uh-huh.

Q What other vendors do you buy material from in Elkhart?

A I use Babsco Electric.

Q Could you spell that?

A B-a-b-s-c-o, Babsco.

Q And where are they located?

A There are on South Main Street in Elkhart.

Q In Elkhart?

A Yes.

Q And what material do you buy from them?

A Wire, relays, breakers, that type of material, electrical supplies.

Q Do you buy the cleaning material that you referred to earlier that you use when you clean the electrical equipment?

A No. I get that through the NAPA store.

Q Is there any other material you buy from Babsco?

A Well, just what I mentioned there: tape, things like that there.

Q What other vendors do you use for buying material?

- 1 A Borneman Supply.
- 2 Q Could you spell that?
- 3 A B-o-r-n-e-m-a-n Supply in Elkhart.
- 4 Q And what kind of material do you buy from
- 5 Borneman Supply?
- 6 A Screws, bolts, nuts, C-clamps, drills.
- 7 Q What other vendors do you use?
- 8 A Let me see. Oh, Big C Lumber Company.
- 9 Q Are they in Elkhart?
- 10 A Yes, they are.
- 11 Q What kind of material do you buy from them?
- 12 A Lumber, wood glues.
- 13 Q Do you buy the adhesive that you use to join the
- 14 pipes, from them?
- 15 A That adhesive comes from Mid-City Supply.
- 16 That's all part of when you get the pipe.
- 17 Q Do you have records in your office for each of
- 18 those vendors, for example, purchase orders?
- 19 A Yes.
- 20 Q Are they categorized by vendor or by number?
- 21 A By number.
- 22 Q For example, if I wanted to take a look at all
- 23 your purchase orders from Mid-City Supply, would
- 24 I be able to do that fairly easily?
- 25 A Yes.

1 Q What other vendors do you use?

2 A Oh, I use a place here in South Bend called
3 South Bend Supply. That's a plumbing and
4 heating shop.

5 Q What kind of material do you buy from them?

6 A Well, what I have been buying from them is
7 boilers -- Weills-McClane. We replaced all
8 boilers through them.

9 Q Do you buy cleaning solvents or agents from
10 them?

11 A No.

12 Q What other vendors do you use?

13 A I use -- it's called Motor Electric. We buy our
14 electric motors from them, and they repair them
15 also. That's in Elkhart.

16 Q When they repair motors, do they normally do
17 that out at your yard?

18 A No. We take them to them.

19 Q You disassemble the motors?

20 A No, we just check it out. If it's bad, we take
21 it to them, and they repair it or we replace it.

22 Q Do they do the repair in their shop?

23 A Yes.

24 Q Are there any other materials you buy from Motor
25 Electric?

1 A No.

2 Q Are there any other vendors?

3 A State Chemical is the other vendor. And that's
4 where we get our bowl cleaner and the sewer
5 cleaner from.

6 Q What kind of sewer cleaner is this?

7 A You know, it's an acid, and I can't think of the
8 name of it right offhand. It comes in a about a
9 quart plastic bottle. And if you have a drain
10 that plugs up, it's like Draino. It comes in a
11 liquid-type form.

12 Q Are there any other vendors?

13 A That's about all I can remember here.

14 Q Who authorizes these purchases?

15 A I do.

16 Q Do you have to get authorization from anyone
17 else to buy them?

18 A No.

19 Q Is there a dollar limit on purchases?

20 A Yes.

21 Q And what is that limit?

22 A Total of \$600.

23 Q That's per order?

24 A Yes.

25 MR. CUNNINGHAM: I'm wondering if we

1 can take a five-minute break now?

2 MR. LINDLAND: Yeah, that's fine.

3 (Break taken.)

4 Q Are you aware of any trial runs of new cleaners
5 or solvents that were used in the B & B
6 building?

7 A No.

8 MR. ERMILIO: Trial runs?

9 BY MR. LINDLAND:

10 Q Did you experiment with any cleaners?

11 A If you would come over to the B & B building,
12 it's about the size of this room.

13 Q Are you familiar with a hazardous substance
14 survey form?

15 A No.

16 Can I retract that? There is a form that
17 they send with all like the solutions for the
18 washing of the ice machines, and that tells if
19 there are any toxic substances in it.

20 Is that the form you're asking about?

21 Q Who does that form come from?

22 A It comes from the manufacturer.

23 Q No, this is a form generated by Conrail.

24 A No.

25 MR. CUNNINGHAM: Off the record.

(Discussion off the record.)

(Plaintiff's Exhibit 3 marked
for identification.)

BY MR. LINDLAND:

Q I'm handing you what's been marked as
Plaintiff's Exhibit No. 3.

Have you ever seen that document before?

A No.

Q Do you know John Tantanella?

A John Tantanella used to be head of the store
department in Elkhart. Now he's, I think, in
Toledo or somewhere, but, yeah, he's in the
store department.

Q Is he still working with Conrail?

A I think he does, yeah.

Q Do you keep any repair records in the B & B
Building?

A The only real records we keep in the B & B
Building would be maintenance records as far as
maintenance on compressors and any books on the
equipment themselves that we might need.

Q Do you keep any maintenance records regarding
the refrigerating equipment or the cooling
units?

A No.

1 Q What kind of machinery do you use in the B & B
2 Building?

3 A We got generators, -- standby generators that we
4 use -- electric drills.

5 Q Are the generators in case there is a power
6 failure? Is that the kind of generators you
7 have?

8 A They are standby, hand-held generators in case
9 you need to run an electric drill or something
10 like that there. They're portables.

11 Q How big are they? How many horsepower are they?

12 A They're 4,000 watt, 2,500 watt, 1100 watt.

13 Q Are those cleaned?

14 A They're brand new Hondas.

15 Q Are they ever cleaned?

16 A No.

17 Q They're brand new?

18 A Yeah.

19 Q Is there any other kind of machinery used other
20 than hand drills and that sort of thing?

21 A That's about it.

22 Q Are you familiar with a unit called a safety
23 clean parts washer?

24 A No.

25 Q Does "safety clean" mean anything to you?

1 A No.

2 Q Is there anyone in charge of environmental
3 affairs in the B & B Building?

4 A No.

5 Q Has there ever been?

6 A No.

7 Q First of all, are you familiar with the drainage
8 system -- the sanitary drainage system?

9 A Yes, I am.

10 Q Are you familiar with the surface runoff
11 drainage system?

12 A Yes.

13 Q Is there someone that's more familiar with it?

14 A Randy Harvell.

15 Q When was the sanitary system originally
16 installed?

17 A 1957.

18 Q Has it been updated or changed in any way?

19 A No.

20 Q Do you remember who installed it?

21 A No, I don't. I remember the general contractor
22 in the yard at that time was an outfit called
23 Super Electric out of Chicago. That was the
24 name of the general contractor on that job. But
25 who installed the sewer, I don't know.

(Plaintiff's Exhibit 4 marked
for identification.)

Q I'm handing you what's been marked as Exhibit
No. 4.

If you could describe generally how this
sanitary drainage system works.

A Why don't we get the other print for the
sanitary drain. This is the storm sewer.

Q The storm sewers?

A Uh-huh.

MR. LINDLAND: If we could have the
sticker crossed off from this map and mark
this other map as Exhibit 4 instead,
please.

(Exhibit so marked.)

Q Handing you what's been marked as Plaintiff's
Exhibit No. 4, do you recognize this document?

A Yes, I do.

Q And what do you recognize this as?

A I recognize it as the sanitary sewage blueprint
-- plan.

Q Of what?

A Elkhart Conrail yard.

Q Did you prepare this plan?

A No.

1 Q Do you know who did?

2 A No.

3 Q Do you use this plan?

4 A Yes, I do.

5 Q Could you briefly describe the sanitary sewer
6 system, please?

7 A The sanitary sewer system in Elkhart yard is
8 called a forced main system, which means we pump
9 the system rather than use gravity. And we pump
10 through four-inch pipe to a location down in
11 front of the dormitory (indicating).

12 Q Where is the pump house?

13 A Well, you have a pump house here (indicating).
14 You have seven of them located on here. One
15 down here (indicating).

16 Q Are they indicated as pump houses?

17 A Well, Pumping Station A. (Indicating) See that
18 there?

19 Q Yes, okay.

20 A What that has in there is two, five-horsepower
21 pumps with a head of about 120 pounds pressure
22 right at the head. It forces it through a four-
23 inch pipe down, down, down, down, down until it
24 gets in front of the dormitory. It goes into
25 another holding tank which has two more five-

1 horsepower pumps. And it pumps it through a
2 six-inch sewer line to the City of Elkhart.
3 About a mile east of the dormitory there's a
4 control manhole where the City of Elkhart checks
5 the water (indicating).

6 Q The piping that leads from the tank near the
7 dormitory goes to the City of Elkhart.

8 Does it ever cross it?

9 A Our yard?

10 Q Yes.

11 A Yeah, sure it crosses our yard and hooks on over
12 by 33 -- Highway 33 (indicating).

13 Q So it goes under 33?

14 A It goes under 19 -- Highway 19.

15 Q Under 19 and then it hooks up on the other side
16 of 33?

17 A It stays on this side of 33 here (indicating),
18 and it goes under the viaduct, which is 19, and
19 goes to a control manhole where the city picks
20 it up there.

21 Q What do you mean by "control manhole"?

22 A It's a manhole that we put in and has ladders in
23 it and is outfitted in there to where the city
24 can put their test equipment and check it for
25 pollutants and stuff. And they do that once

1 every three months, I think.

2 Q Are there any records that are kept in your
3 office regarding the testing of the pollutants?

4 A Harvell keeps them in his office.

5 Q You mentioned that there is four-inch piping
6 that leads from the pump house down to the tank
7 in front of the dormitory.

8 A Uh-huh.

9 Q How are those pipes connected?

10 A Those pipes are cast iron bell-type pipe and
11 they are just, you know, have seals in them, and
12 they just put them together.

13 Q What type of seals?

14 A It would be a neoprene seal inside of the pipe.
15 When they put them together, it seals them up.

16 Q Is there any leak-detection equipment associated
17 with that?

18 A No.

19 Q Do you know if they've ever had any leaks in
20 that system?

21 A Not to my knowledge we've never had one.

22 Q Have any of those pipes ever been replaced?

23 A No.

24 Q Now, does the system that you just pointed out
25 hook up to all of the sanitary sewers that are

1 on the site?

2 A (Indicating) This is the diesel shop over here.
3 He comes down with his sewer line and goes over
4 here. This is the C.R.O. tower. It's a
5 gravity-fed sewer line that goes into the
6 holding tank here.

7 Q What do you mean by "gravity fed"?

8 A It's just gravity fed into the well itself.

9 Q So there is no pump?

10 A No, not at the C.R.O.

11 It's down line here in front of the hump
12 tower, which has the pumps, which pumps it over
13 here.

14 Q You said "C.R.O. tower"?

15 A Yes.

16 Q (Indicating) And that's identified here as the
17 control retarder tower?

18 A Yeah, control retarder tower.

19 Q And that goes to a holding tank?

20 A To a well right here, yeah (indicating).

21 Q What's the well made of, do you know?

22 A It's a cement, 48-inch inside diameter, eight-
23 inch walls, and I think it's about eight feet
24 deep. It's pretty deep.

25 Q So material is stored there until it reaches a

1 certain level?

2 A And then pumped out.

3 Q Do you know whether there has been any
4 maintenance on that storage tank?

5 A Well, every Friday we grease the pumps and make
6 sure everything is working in there, so I guess
7 that's the maintenance we do on them. It's once
8 every Friday.

9 Q Do you have any leak-detection equipment around
10 that pump or that tank?

11 A Unh-unh.

12 Q Do you know whether there are any monitoring
13 wells that are installed around that tank?

14 A Are you talking about E.P.A. wells?

15 Q Or Conrail monitoring wells.

16 A No.

17 Q Do you know whether the walls of that tank have
18 ever been inspected for cracks or erosion?

19 A Not to my knowledge.

20 Q When was that tank installed?

21 A It would have been in 1957.

22 Q And the pipe that leads to that tank was also
23 installed in 1957?

24 A Yes.

25 Q Do you know whether that pipe has ever been

1 replaced?

2 A No.

3 Q No it hasn't ever been replaced, or no you don't
4 know?

5 A Not to my knowledge it hasn't, no.

6 Q Do you know whether any of the pipe associated
7 with the sewer system has ever been replaced?

8 A Not to my knowledge.

9 Q Do you know of any complaints either from
10 employees or neighbors regarding this sanitary
11 sewer system?

12 A Unh-unh.

13 Q How deep are these pipes?

14 A Well, you know, I think they're probably seven
15 to eight feet down in there. Without checking
16 into it, I really don't know.

17 Q Okay. And that's the main line that you've
18 identified from the pumping station down to the
19 --

20 A (Indicating) From the west end, and then down in
21 here it picks up the hump tower and the diesel
22 shop.

23 Q Now, you mentioned that the diesel shop system
24 is a gravity-fed system.

25 A Well, the C.R.O. tower is a gravity fed here.

1 (Indicating) It feeds as far as the manhole here
2 in front of the hump tower.

3 Q And what about the system leading from the
4 engine house?

5 A No, that's a forced system. It's a four-inch
6 sewer forced main.

7 Q And was that also installed in 1957?

8 A Yes.

9 Q How deep is that piping, do you know?

10 A No, I don't.

11 Q Do you know what the capacity of that system is?

12 A What we pump to the city per day?

13 Q Right.

14 A It's -- we have it metered. It's been running
15 about 2,000 gallons a day to the city.

16 Q That's 2,000 gallons a day from the yard itself?

17 A Yeah, from this area here to the city. We have
18 meters and stuff right in here (indicating).

19 Q So everything feeds into the location by the
20 dormitory?

21 A Yes, it does.

22 Q Are there any filled areas; that is, any areas
23 where lines have been removed and filled in?

24 A Most of this, to my knowledge, is the same as it
25 was in 1957. (Indicating) The car department is

1 here, and I don't know of any filling that has
2 been done, no.

3 Q Do you know whether the drainage system has ever
4 been replaced around the diesel shop?

5 A You're talking about the sanitary now?

6 Q Right.

7 A No.

8 Q Is that system ever cleaned -- the main drainage
9 system?

10 A To my knowledge, it's never been cleaned.

11 Q You mentioned earlier that you use a cleaning
12 agent like a Draino for the plumbing, correct?

13 A Right.

14 Q Is that pumped down through like a toilet and
15 then --

16 A -- or sink into the sanitary sewer, yes.

17 Q But is that material used to clean the main
18 line?

19 A No.

20 You're talking about a quart bottle or
21 something every once in a while, you know.

22 Q So the main system has never been cleaned?

23 A No.

24 Q Have you had any problems with it?

25 A No.

1 Q Any problems of plugging up?

2 A No.

3 Q Are there screens in there?

4 A Every once in a while we have to replace a pump,
5 and that's about the extent of the maintenance
6 we really do to it.

7 Q Are there any pumps located from the main
8 pumping station to the storage area in front of
9 the dormitory?

10 A Yeah. All these are pumps. You have a pump
11 here, two pumps in here (indicating). It forces
12 it down to this area here.

13 Q Which is located right under where it says "five
14 tracks"?

15 A Yeah, right along the westbound yard there.

16 Then it's forced -- pumps force it down to
17 here (indicating). Two pumps over here are kind
18 of at different levels, forcing it into here.
19 And one right here in front of the hump tower
20 has two pumps. It's gravity fed from the C.R.O.
21 tower down to these pumps here, and they pump it
22 into this over here (indicating). From there,
23 these pumps kick it into the city through meters
24 so we know what we have -- flow meters in there.

25 Q Is this area of the pumping stations that's

1 located in the middle of the yard or underneath
2 that's marked here as "five tracks"?

3 A Well, it's right along the roadway here
4 (indicating).

5 Q Is that area ever cleaned or have you ever had
6 any reason to repair that other than the pumps?

7 A You're talking about here (indicating)?

8 Q Yes.

9 A About a year ago some gal ran into the
10 electrical system there, and we replaced the
11 electrical system. But not as far as the sewer
12 itself, no.

13 Q You mentioned that there is some equipment from
14 the city that detects the pollutants that come
15 out of this system.

16 Where is that detection equipment?

17 A That is portable testing equipment that they
18 come out and use about every three months, I
19 think. They go down in this control manhole,
20 which is right to the west of Highway 19.

21 Q It's just west of Highway 19?

22 A Yeah.

23 And they go down and they make the tests.

24 Q Is there any testing done between Highway 19 and
25 the Elkhart yard?

1 A In this system here, no.

2 (Indicating) Up here, we have a system for
3 that main line fuel pad, which is a different
4 thing.

5 Q You're referring now to the upper right-hand
6 corner of the exhibit?

7 A Right. Which is right here. It's not on that
8 print. I thought maybe Harvell would bring that
9 print.

10 Q Okay. What exactly is that pad?

11 A That is where they fuel locomotives on the main
12 line.

13 Q Is this where they're serviced?

14 A Yeah.

15 Q And in the sanitary sewer system that's located
16 there, is that material ever tested prior to
17 reaching the control sewer where the city does
18 its testing?

19 A They check it every morning to see if it has any
20 oil base to it, any sheen or anything. And once
21 a week they take a E.I.S. or E.S.I. over here
22 and have it inspected.

23 Q And that's where?

24 A At the main line fuel pad.

25 Q Do you know whether there are any reports

1 generated from that testing?

2 A From our testing?

3 Q Right.

4 A Yes.

5 Q And where are those reports kept?

6 A Harvell's office.

7 Q And he also has the reports from the city?

8 A Uh-huh.

9 Q How long has that testing been going on? I
10 mean, when did they first start testing -- what
11 year?

12 A Well, that was put in about three years ago --
13 four years go. They started testing on it then.

14 Q I'm confused. You said four years ago.

15 A The main line fuel pad -- what we're talking
16 about now -- was put in about four years ago.

17 Q So prior to four years ago, where was that
18 operation?

19 A There wasn't one. It was a new concept that
20 Conrail put in, fueling right on the main. We
21 used to fuel them back here at the engine house,
22 you know.

23 Q And why did they do this?

24 A Just -- you know how it is. Everybody's always
25 in a hurry, to save money.

1 Q Do you know whether there has been any spills or
2 any material has been dumped into that system
3 other than normal?

4 A Fuel oil?

5 Q Right.

6 A Yeah. The only spill we ever had was a fuel oil
7 spill, and we -- the city picked it up down
8 stream. And when we checked it out, we couldn't
9 find anything and neither could they. Their
10 testing equipment showed there was fuel in
11 there, but that was the only thing.

12 Q Fuel oil in the sanitary sewer?

13 A Uh-huh.

14 Q And did Conrail look for the source?

15 A Yeah, we went right into it with them. When we
16 got there, we could never pick it up again. The
17 chemist that went down there, he picked it up.
18 He got a hold of us in about 20 minutes. When
19 we all got down there, we couldn't pick it up
20 again.

21 Q Down where?

22 A Down the control manhole where the chemist was
23 picking up the fuel oil.

24 Q Did Conrail ever do an investigation on their
25 property to find the source of that material?

1 A Yeah. We did an investigation, but we couldn't
2 come up with it, and it never showed up again.
3 So that's been two years ago in 1991.

4 Q Who was the chemist, do you remember, who
5 originally picked it up?

6 A Right out of the Elkhart wasteway plant there on
7 Nappanee Street.

8 Q That's the wastewater treatment plant?

9 A Yeah.

10 Q And was it just fuel oil that they found?

11 A Yes.

12 Q Who was working on that from Conrail?

13 A I was.

14 Q Was anyone else?

15 A I can't remember who was with me anymore, but,
16 yeah, as far as it goes, it was just me. I
17 can't remember anyone else.

18 Q Were there any reports generated as a result of
19 that investigation?

20 A Not to my knowledge. We just come to the
21 conclusion that something might have been wrong.
22 I don't know.

23 Q Have you had any problems prior to that
24 regarding fuel oil or any other substance
25 detected by the city?

1 A (Indicating) In this line here, I think.

2 Q And by that you're referring to the main engine
3 line?

4 A Yeah, to the main line fuel pad. In '88 or '89,
5 we had a fuel spill. It wasn't a fuel spill.
6 We got oil in the city sewer line, was unable to
7 detect it, and it got in the river somehow. We
8 polluted the river a little bit, too.

9 Q Was there any investigation into the source of
10 that?

11 A Yeah, there sure was.

12 Q Were there any reports generated as a result of
13 that investigation?

14 A Yes, there were.

15 Q Do you know who was responsible for generating
16 those reports?

17 A A guy by the name of Frank Svoboda. He's our
18 environmental man out of Philadelphia. And he
19 could tell you more about it.

20 Q And that was in '88 or '89?

21 A Yeah, somewhere in there.

22 Q Are there any other incidents that you recall
23 where fuel oil or other substances got into the
24 sewer system?

25 A No. That's the only one I can ever recall.

1 Q How long has the city been testing that outfall?

2 A Since we put it in, since in '88 when it was
3 new. That was part of the agreement with the
4 City of Elkhart.

5 Q But you said that the city is also testing the
6 main sewer line?

7 A Well, this main line comes across over to here,
8 and this line T's into it, goes over like that,
9 and right here that is the control manhole
10 (indicating). So they test the whole yard when
11 they're testing that.

12 Q For the record, you're referring to the upper
13 right-hand corner, drawing an imaginary line
14 drawn from the dormitory up to the tracks where
15 it says "early birds" on the document?

16 A Yes.

17 Q So that system was being tested in 1988 for the
18 first time?

19 A Yeah.

20 Q So prior to 1988, was the main sewer system ever
21 tested?

22 A Not to my knowledge.

23 Q Going to the wastewater treatment system, are
24 you aware of any spills of trichlorethylene or
25 carbon tetrachloride?

1 A No, I'm not.

2 Q Are you familiar with the car or track cleaning
3 process?

4 A No.

5 Q Who would be familiar with that?

6 A When you say "car or track," are you talking
7 about --

8 Q Well, there are actually two things listed.
9 Let's start with the tracks.

10 A Nick Montagano is in charge of tracks, and he
11 could help you there.

12 Q And how about the car cleaning?

13 A Gary Yost is the now the new super over there,
14 and he'd be able to help you over there.

15 Q Do you know whether the drainage system in the
16 car shop is connected also to this main line?

17 A Yes, it is.

18 Q Are you familiar with the design of the drainage
19 system in the car shop?

20 A Yeah.

21 (Indicating) It's right here.

22 Q Is it identified as "Car Repair Shop"?

23 A Car Department No. 5.

24 Q How is that system connected to the main line
25 system?

- 1 A Gravity feed to the pump.
- 2 Q What's labeled there as "Pumping Station A"?
- 3 A Yeah, right.
- 4 Q So there is gravity feed from the car shop to
- 5 Pumping Station A?
- 6 A Uh-huh.
- 7 Q Is that four-inch pipe as well?
- 8 A The gravity feed is -- I can't read this too
- 9 well. What's that say here? It's a six-inch
- 10 pipe, the gravity feed to the pump station.
- 11 Q Is that also joined in the same way that the
- 12 rest of the system is; that is, with the rubber
- 13 seals?
- 14 A Neoprene inserts, yes.
- 15 Q And that system was also put in in 1957?
- 16 A Uh-huh.
- 17 Q Is there any leak-detection equipment associated
- 18 with that part of the system?
- 19 A No, there's not.
- 20 Q Has that part of the system ever been cleaned?
- 21 A No, it hasn't.
- 22 Q You mentioned that the maintenance on the system
- 23 included the pumps, basically taking care of the
- 24 pumps.
- 25 A Yes.

1 Q What exactly do you do to the pumps to maintain
2 them?

3 A The pumps are ten or 12 feet deep. They have
4 about three main bearings. The bearings have to
5 be lubricated once a week or once every two
6 weeks. And the pumps also have a device in them
7 that measures the level of sewage in there, and
8 it kicks one pump on at a certain level and
9 another pump on at another level, so it's like a
10 switch. It's mercury operated, and we have to
11 maintain that. Sometimes that gets out of
12 whack, and it's quite complicated, to tell you
13 the truth.

14 Q So once the level rises high enough to trigger
15 that pump, it just kicks on?

16 A It kicks the pumps on.

17 Q Is this to a sump pump?

18 A That's what it looks like, a hugh sump pump.

19 Q Who installed that pumping system, do you know?

20 A No. It came with the yard.

21 Q In 1957?

22 A Yeah, it did.

23 Q Has the pumping system changed since 1957?

24 A No.

25 Q Is the pumping station cleaned?

1 A Visually it looks clean.

2 Q Okay. But I mean do you actually go in and
3 clean it?

4 A No.

5 Q Do you remember any specific problems associated
6 with the pumping system?

7 A No.

8 Q Are seals ever replaced on the pumps?

9 A No. Usually the pumps are replaced -- entire
10 pumps. When we have a pump go bad, we just
11 order a new pump. We change the motors, but we
12 don't change the pumps. We replace the motors,
13 rather.

14 MR. LINDLAND: Do you want to break now
15 as it seems like a convenient time to do
16 that?

17 MR. CUNNINGHAM: Fine with me. How
18 about 1:15 as a return time.

19 MR. LINDLAND: If we come back at 1:15,
20 we'll be done by four. I've got maybe two
21 hours left.

22 (Lunch break taken.)

23 BY MR. LINDLAND:

24 Q Has the sanitary sewer system or parts of it
25 ever been abandoned?

1 A Not to my knowledge, no.

2 Q Do you know whether there were any alterations
3 to what is known as Crawford's Ditch?

4 A Well, you're talking about two systems now. Do
5 you want to go back to that storm sewer?

6 Q Okay. First of all, are you familiar with
7 Crawford's Ditch?

8 A Yes, I am.

9 Q And how are you familiar with that?

10 A Just being around for a long time.

11 Q Is it used for anything specific at Conrail?

12 A Yes, it is. It's for all the storm sewer water
13 collects into a wearing device that's in
14 Crawford's Ditch. The oil is pumped off into a
15 holding tank. The oil comes to the top, and in
16 the bottom is water, and that water goes into
17 the crick.

18 Q That's known as the oil/water separator?

19 A Yes.

20 Q Do you know of any alterations that were ever
21 made to Crawford's Ditch?

22 A The whole thing has been rebuilt, you know. I
23 mean, the whole system has been rebuilt.

24 Q When was it rebuilt?

25 A Probably ten years ago.

1 They put in a new collecting tank where the
2 storm water all goes into this cement pond.
3 Again, the oil rises to the top. They have
4 skimmers that skim the oil off the top. It
5 flows on down towards the ditch into another
6 holding pond, that's part of the ditch. Then
7 they skim it off again.

8 Q Is that sort of Mr. Harvell's program?

9 A Yes.

10 Q The question I'm asking is whether there has
11 been any alterations to the ditch itself other
12 than that oil/water separator?

13 A To my knowledge, there hasn't been. It's all
14 been about the way it is right now.

15 Q What was existing there prior to the rebuilding
16 that you mentioned earlier, about ten years ago?
17 In other words, what was the system there prior
18 to that?

19 A The cement pond wasn't there where they drain
20 right into a pond, which is on the south end of
21 the crick.

22 Q Is that lined?

23 A No. It has a lot of rickrack and stuff in it,
24 but it's not lined. It never had lining in it,
25 no.

1 Q Are you familiar with the sewage system in the
2 car repair shop?

3 A Uh-huh.

4 Q Is that one that we talked about earlier?

5 A Uh-huh.

6 Q Are you familiar with the one in the diesel
7 shop?

8 A Yes.

9 Q Is that significantly different than the
10 drainage system in the car shop?

11 A No. It's the same thing.

12 Q Is that a gravity system?

13 A It's gravity to the point where it collects in
14 this pumping station and is pump forced fed over
15 to the dormitory over there. And there's a big
16 one there that forces it out to the city main.

17 Q So all the gravity-fed system has this retaining
18 basin?

19 A Yes.

20 Q From which the material is pumped?

21 A Uh-huh.

22 Q Does the -- is that the store house
23 (indicating)?

24 A The store department is located on the west side
25 of the car shops, which it is part of the car

1 department. It's not separate.

2 Q So is the sewage system for that hooked up --

3 A It's the same. In fact, the store department
4 uses the showers or the rest rooms and stuff
5 from the car department.

6 Q Well, is there a floor drain in the store house?

7 A No. The only floor drain is down in the locker
8 room and in the car shops itself.

9 Q And that floor drain in the car shop, though, is
10 it hooked up to the sewage system or the
11 drainage system?

12 A The sewage system.

13 Q And is that drain ever cleaned out?

14 A If it's ever plugged, I'm sure we clean it. I
15 don't recall right offhand.

16 Q But I'm sorry to swing back and forth between
17 shops.

18 Now, in the store shop or the store house
19 there is not a drain there?

20 A No.

21 Q What about the diesel shop, is there a drain in
22 there?

23 A Yeah.

24 Q A floor drain?

25 A Uh-huh.,

1 Q And is that drain connected to the sewer system?

2 A Yes.

3 They're all in the lunch room/locker room
4 area.

5 Q Okay. So there's no floor drain in the working
6 area of the diesel shop; is that correct?

7 A Yeah. There is that big pit we were talking
8 about earlier. That long pit has the drains in
9 it.

10 Q But other than that pit, there are no other
11 drains?

12 A No.

13 And those drains out there go into the
14 storm sewer drain. And the ones in the shop in
15 the locker rooms feed into the sanitary sewer.

16 Q I see. What about the car repair shop. Is
17 there any drain in their floor?

18 A In the shop?

19 Q Other than in the locker room?

20 A No.

21 Q Is there a drain in the B & B shop?

22 A Yes, a floor drain.

23 Q And is that drain connected to the sewage
24 system?

25 A The sanitary sewage system, yes.

1 Q Are you familiar with a paint shed or a paint
2 storage area?

3 A I'm familiar with what they used to call the old
4 paint shed. It was part of the car department.

5 MR. LINDLAND: Could you mark that?

6 (Plaintiff's Exhibit 5 marked
7 for identification.)

8 Q I'm handing you what's been marked as
9 Plaintiff's Exhibit No. 5.

10 Does this document look familiar to you?

11 A Now, right here is the paint shed (indicating).
12 And to my knowledge, it was never used.

13 Q First of all, does this document look familiar
14 to you?

15 A Yes.

16 It's the yard.

17 Q At the Elkhart yard?

18 A Uh-huh.

19 Q Now, just point out the area that's marked
20 "Paint Shed."

21 A Right here, yeah.

22 Q Has that ever been used?

23 A To my knowledge, it never has been, no.

24 Q Do you have any reason why this is marked "Paint
25 Shed"?

1 A Well, when the yard was built, it was -- maybe
2 they were going to paint cars there, but they've
3 always used that track for an upgrade track.
4 That shed is now offices. It has a car
5 department foreman in there.

6 Q Okay. This map was drawn in 1979.

7 A This thing that says "Paint Shed" has a track
8 going through it. That's all open. The only
9 thing it has is a roof on top of it. It holds
10 about a box car and a half. Right to the south
11 of there is a little building where they store
12 the painting stuff (indicating).

13 Q Would that be where it's indicated as "paint
14 storage"?

15 A Uh-huh.

16 To my knowledge, they never used it.

17 Q Is there a road, then, that goes in between the
18 two?

19 A Yeah, the road comes down here (indicating).

20 Q What's this black line running through here with
21 these dots in it? Do you have any idea?

22 A Yeah. That represents a 12,500-volt power line
23 that feeds over here from Indiana & Michigan
24 Electric right here, comes across the yard,
25 picks up the car shop, and goes over to that new

1 trailer van site Conrail has that we just put
2 in. We unload RVs and stuff there.

3 Q And is that the same as this line here that's
4 connecting? Would that be a power line as well?

5 A Yeah, those are power lines here.

6 It goes down and feeds the west-end tower
7 and the north-end tower (indicating).

8 Q Now, to the best of your knowledge, this has
9 never been used for paint storage?

10 A No. I know they said it was going to be a paint
11 shop, but they never painted in there. They
12 always used it to upgrade. That's what they're
13 using it for now, upgrading. Two people work in
14 there all the time and a foreman.

15 Q And what about the paint storage, is that
16 building there?

17 A Yeah, it's there. It looks just like this
18 (indicating). It has an office in it. It's got
19 a couple storage cabinets where they store their
20 burning equipment and gauges and torches.

21 Q Do you know anybody who would -- strike that.

22 Is there somebody in charge of painting
23 cars?

24 A We don't paint cars. To my knowledge, we never
25 did.

1 Q Okay.

2 A That was all done at another terminal.

3 Q Also on here is "Pneumatic Tube."

4 What does "Pneumatic Tube" mean?

5 A It no longer exists. But what it was, when a
6 train would come in out of the east, when it hit
7 the yard, the conductor would get off the train,
8 put his bills in a cylinder, put it in this
9 chamber, and shoot it to the hump tower. And it
10 was done by pressure. It's been all stripped
11 out and gone. We don't use that anymore.
12 Everything is on the computer now.

13 Q So have those tubes been taken out?

14 A Yeah.

15 Q Were you responsible for taking those out?

16 A No. They contracted them out. They was all
17 aluminum.

18 Q Do you know what they filled that in with?

19 A They were above ground, 12 to 15 feet above
20 ground on poles. They weren't underground.

21 Q I see. Is there a sewer or sanitary drainage
22 system in the track clean out area?

23 A Yes, there is.

24 Q Do you want to refer to the other map? It might
25 be more helpful.

- 1 A Yes.
- 2 Q It's on the other end.
- 3 A It's not on there.
- 4 Q I believe this was marked Plaintiff's Exhibit
- 5 No. 4.
- 6 A Okay.
- 7 Q Where would that system be?
- 8 A Well, you have the drainage system. I think you
- 9 want the sanitary system.
- 10 Q Oh, okay, the sanitary system, right?
- 11 A Right.
- 12 (Pause.)
- 13 Q This one is easier to deal with anyway.
- 14 A It's cleaned out. It has an office building
- 15 there, too, and it's just had a lateral that
- 16 comes out and it's a pumping station right here
- 17 (indicating).
- 18 Q And that's connected then to the main system?
- 19 A Yeah.
- 20 Q Is there a drain in that building?
- 21 A I don't recall. There probably is. It's fully
- 22 equipped with showers and toilet facilities.
- 23 Q But that would be located in the locker room
- 24 area then?
- 25 A Right.

1 Q Is there a floor drain located in a working
2 area?

3 A Not to my knowledge there isn't, no.

4 Q Are there any floor drains located in the
5 Elkhart yard other than the engine house and the
6 car shop?

7 A No, I don't think so.

8 Q Is there a sewage system located in the
9 receiving yard?

10 A No. There is no sanitary sewer in there. They
11 do have storm sewers.

12 Q "Storm sewers" referring to the storm runoff
13 system?

14 A Yes.

15 Q What about the departing yard?

16 A No sewage system.

17 Q Turning your attention to once again what's been
18 marked as Plaintiff's Exhibit No. 2.

19 Are there any waste oil tanks located at
20 the Elkhart yard?

21 A Yeah, we have a waste oil tank at the diesel
22 shop. Any time we remove the lubricating oil,
23 we dump it in the waste oil tank.

24 Q Is that above ground?

25 A Yes, it is.

1 Q Is that outside?

2 A Yes, it is.

3 Q What material is that tank made out of?

4 A Steel.

5 Q Is there a cement floor to it or cement pad?

6 A It has a cement dike to it, and it's a 15,000-
7 gallon tank.

8 Q Is that waste oil then cleaned out of there
9 periodically?

10 A They bring in a vendor to pull that out.

11 Q What vendor is that?

12 A Randy Harvell would be better able to tell you
13 all that.

14 Q Okay. Are you aware of any underground tanks in
15 the Elkhart yard?

16 A All underground tanks were removed maybe three,
17 four years ago.

18 Q Were you responsible for the removal of those
19 tanks?

20 A No. We worked along with the engineering
21 department out of Dearborn. I can't think of
22 the fellow's name. It was Tom something. He
23 came in and handled the removal of the tanks.

24 Q And that was the engineering department?

25 A Uh-huh.

1 Q In Dearborn, Michigan?

2 A Yeah.

3 I think he's sort of like our E.P.A.
4 person.

5 Q Is it Tom Pendergast?

6 A Well, it wasn't Pendergast, but I would know who
7 the guy was.

8 Q How big were these tanks? First of all, how
9 many tanks were there?

10 A Well, I don't know. There's a couple down at
11 the engine house, probably a couple at the car
12 shop. I would say there was ten or 12 tanks
13 removed out of the yard. And most of them were
14 fuel oil tanks is what they were.

15 Q Now, you mentioned that two were at the engine
16 house and two were at the car shop?

17 A Yes.

18 Q That means there were roughly six to eight other
19 tanks.

20 Where on what's been marked as Plaintiff's
21 Exhibit No. 2, where were those other tanks
22 located, if you can remember?

23 A Yeah, I do.

24 Do you have a pencil? Can we mark on this?

25 Q Sure. If you would just refer, once again, to

1 the coordinate system we have set up here to
2 make the record clear.

3 A Well, two in this area here.

4 Q Let the record reflect that he made two Xs in --

5 A Hold it a minute. I have to move them over
6 here. Let's make it in this area here. They
7 are at the east end of the diesel shop. One was
8 a fuel oil and one was a Bunker C tank in which
9 they used to fire the boilers way back then.

10 Q For the record, the witness made two small, blue
11 Xs in quadrant E-17.

12 So those were waste oil tanks?

13 A One was a fuel oil tank for the boiler. The
14 other one was a Bunker C, which them old
15 boilers, once you got them fired off on light
16 oil, we used to run this heavy oil through a
17 heater and lighten it and use that to burn with,
18 and it was like a tar. That was a big tank,
19 too. We took that out.

20 Q How was that tar cleaned out?

21 A Out of what?

22 Q Out of the heaters? Would it ever gunk up in
23 the heaters?

24 A No. We discontinued it about the second year we
25 had it. It never worked, but the tank was still

1 there.

2 Q Where did you get that material from, do you
3 remember?

4 A No, I don't.

5 Q Do you remember what was done with the excess
6 material that was left in that tank?

7 A The tank was removed. I remember we took a
8 permit out through the city to remove the tank,
9 and I think a contractor did that.

10 Q And you mentioned that was discontinued?

11 A Uh-huh.

12 Q What year was it discontinued?

13 A Probably by 1980.

14 Q And what year was the tank removed?

15 A Probably 1987, '88.

16 Q What happened to the material that was in that
17 tank?

18 A I have no idea. It just laid there as far as I
19 know.

20 Q Do you know what material those tanks were made
21 out of?

22 A Everything was a steel tank.

23 Q Okay. Do you know the capacity of those tanks?

24 A No. But, you know, I could probably find out.
25 Somebody out there would remember.

1 Q You mentioned that then there were roughly four
2 other tanks in the yard.

3 Where would those tanks have been?

4 A I have to go down to the car shop here. At the
5 carp shops there was two tanks, both of them
6 were underground fuel tanks. We removed those.

7 Q And that's in cell G-6?

8 A Yes.

9 Q And were those --

10 A About 500-gallon fuel tanks.

11 Q Were they used?

12 A Yeah.

13 Q Were they used up until 1987 or '88?

14 A Yes.

15 Q Were they ever used for anything other than
16 fuel?

17 A No. It was for the boilers. One was for the
18 boiler and the other for the steam crane.

19 Q Do you know when they were installed?

20 A I would say '57.

21 Q And those were metal tanks just like the others?

22 A Uh-huh.

23 Q Were there any other underground storage tanks
24 or any kind of underground tank?

25 A Yeah, there was. Let's see. (Indicating)

1 Probably right in this area here was one.

2 Q And that's cell E-16.

3 A Yeah, there was one tank there. And that fed
4 the hump tower boiler.

5 Q And again, that would be heating oil or fuel
6 oil?

7 A All fuel oil.

8 Q Was it the same kind of fuel oil.

9 A No. 2 fuel oil.

10 Q Is that the heavy sort of tar-like substance?

11 A No. The heavy is the Bunker C oil, which is
12 kind of like a tar.

13 Q And that's the stuff you discontinued using?

14 A Uh-huh.

15 Q Are these boilers ever cleaned out? I mean,
16 does the fuel oil ever accumulate in there?

17 A No.

18 (Indicating) Over in here is a building
19 called the dormitory, and we heated that with an
20 underground tank, too.

21 Q And that's in 18-E?

22 A Yeah, somewhere in there.

23 Q And again, that's an underground fuel tank?

24 A Yeah, it was.

25 Now it's a 1500-gallon diked tank.

1 Everything's diked now, above ground.

2 Q Was it ever used for anything other than fuel?

3 A No.

4 Q Were any of those underground tanks used for
5 anything other than fuel?

6 A No.

7 Q Are you familiar with the company that was hired
8 to get rid of these tanks?

9 A I think it was part of the Bowen Construction
10 Project. When they were in there, they seemed
11 to handle that. They're the ones that built the
12 main line fuel pad, and I think they were
13 responsible for removing these tanks, since they
14 had the equipment there. Again, Pendergast
15 would know more than me.

16 Q What was the area filled with after the tanks
17 were removed?

18 A Existing dirt I would imagine. I'm sure they
19 sampled it and seen if it was contaminated. And
20 if it wasn't, they probably used it. And if it
21 was contaminated, they probably brought fill in.

22 Q Are you aware of any buried tank cars in the
23 Elkhart yard?

24 A No.

25 Q Are you aware of any buried 55-gallon drums?

1 A No.

2 Q Are you aware of --

3 MR. CUNNINGHAM: Off the record.

4 (Discussion off the record.)

5 BY MR. LINDLAND:

6 Q Are you familiar with what is known as dry
7 cinder pits?

8 A Yeah.

9 Q What is a dry cinder pit?

10 A A dry cinder pit is a pit in which, back in the
11 steam days, -- and I mean along time ago -- they
12 would bring the locomotives to the house, and
13 before they could bring them in the house, they
14 would make sure it had a full head of steam.
15 They would dump the cinders in this pit outside
16 the house, which was full of water. Now, this
17 was only done at the old roundhouse in Elkhart.
18 We never had a cinder pit in the Elkhart yard.

19 Q What about a wet cinder pit?

20 A That's probably the same thing.

21 Q And those were never at the Elkhart yard?

22 A Unh-unh.

23 Q Are you aware of any fires in any of the
24 buildings in the Elkhart yard?

25 A Not to my knowledge.

1 MR. CUNNINGHAM: What's that got to do
2 with this case? Am I missing something?

3 MR. ERMILIO: Let's go off the record.

4 (Discussion off the record.)

5 MR. LINDLAND: Back on the record.

6 Q Are you aware of any fires of buildings in the
7 Elkhart yard?

8 A No, sir.

9 Q Turning your attention again to what's been
10 marked as Plaintiff's Exhibit No. 5, turning
11 your attention to the area marked "31 car
12 inspector" and after that it says "burned 1-
13 1981," do you know what that refers to?

14 A No, I don't. It was before I was on this job.
15 If that's when it happened, but I don't recall
16 anything there.

17 Q Do you have any idea why the date of this
18 drawing would say 1979 and then that would say
19 '81 or they would refer to a date of 1981?

20 A No, I don't.

21 Q In other words, are drawings sometimes updated
22 later and that's not recorded in the date block?

23 A I can't tell you that. I don't know.

24 MR. ERMILIO: Off the record.

25 (Discussion off the record.)

1 BY MR. LINDLAND:

2 Q You mentioned earlier that the B & B Building is
3 responsible for recharging the cooling system,
4 right?

5 A On the air conditioners, yeah.

6 Q Do you know whether the refrigerants that were
7 used to recharge those systems contain
8 chlorinated solvents?

9 A Not to my knowledge.

10 Q If there was a spill of one of those
11 refrigerants, would it have been documented?

12 A I would think it would be, you know.

13 Q I mean, is there a system or procedure set up
14 for documenting those types of things?

15 A No.

16 Q Are you familiar with a transformer?

17 A Yes.

18 Q Do you know whether there are any transformers
19 located on the Conrail site?

20 A Yes, there are.

21 Q Turning your attention to what's been marked as
22 Plaintiff's Exhibit No. 2, can you point out the
23 locations of the transformers on the site?

24 A There are many of them.

25 Q Approximately how many are there?

1 A Maybe 30, 40, 50 of them out there. I mean,
2 every building has a bank of three or four of
3 them.

4 Q Okay. So there's at least three or four
5 transformers in every building or near every
6 building.

7 A And every light tower -- 13 light towers. Every
8 light tower has a bank.

9 What the transformers do is they cut that
10 12,500 down to 480 volts to operate these towers
11 and stuff.

12 Q Do you know whether those transformers ever
13 contain PCBs?

14 A They've all been tested. The ones that tested
15 bad have all been removed and shipped out.

16 Q Do you know whether the oil has been changed in
17 some of those?

18 A Because of the PCBs?

19 Q Right.

20 A No. There is none in them. The ones that
21 tested bad we removed.

22 Q When did that happen, do you know?

23 A Oh, it happened between 1980 and '86 is when the
24 tests were ran, and they were removed. The
25 contractor came in and picked them all up and

1 took them to some place that was licensed to
2 discard the oil.

3 Q So none of those transformers were retrofilled -
4 - as it's called -- as far as you know?

5 A What do you mean?

6 Q Retrofilled, I mean the fluid was changed,
7 flushed out, the PCBs taken out, and new fluid
8 put back in that's not contaminated.

9 A No.

10 Q Do you know if any used or recycled oil was used
11 at the Conrail site?

12 A Did we use recycled oil?

13 Q Yes.

14 A No.

15 Q Did you ever store oil for recycling purposes?

16 A Yes.

17 Q And that would be the waste oil tanks?

18 A Waste oil tank. We had a tank down by
19 Crawford's Ditch where we pumped it out of the
20 ditch into this big tank. And the main line
21 fuel pad has a tank, what they skim off, and a
22 vendor picks that up, too.

23 Q Okay. But to the best of your knowledge, you
24 have never used recycled oil?

25 A No.

1 MR. LINDLAND: I have no further
2 questions. We reserve the right to re-
3 examine this witness pending the production
4 of documents identified in this deposition.

5 MR. CUNNINGHAM: Mr. Martin, I have a
6 few more questions for clarification
7 purposes only.

8 CROSS EXAMINATION

9 BY MR. CUNNINGHAM:

10 Q Your knowledge of the Elkhart yard goes back to
11 about 1960?

12 A Right, 1957.

13 Q Do you know a Mr. Claude Brouton (phonetic)?

14 A Yes, I do.

15 Q And have you ever talked with him about this
16 case?

17 A No, I haven't.

18 Q Have you ever read his deposition?

19 A No, I haven't.

20 Q Do you know a Mr. Ted Birch?

21 A No.

22 Q I take it by your negative response that you've
23 not looked at his deposition either?

24 A No.

25 Q I think you've answered the question that was

1 posed to you by Mr. Lindland, but I am going to
2 ask you a similar question to that.

3 You indicated that you know of no spills
4 from 1960 until the present involving either TCE
5 or carbon tetrachloride; is that correct?

6 A That's correct.

7 Q And that would include any and all spills
8 involving all of those years; isn't that right?

9 A To my knowledge.

10 Q The only spill you can recall, based on your
11 testimony this morning, was a spill that took
12 place I believe in 1989, is that correct, when
13 some -- and you're not even sure that it was a
14 spill -- when some oil was discovered by the
15 City of Elkhart in the sewer system?

16 A Yeah. It was 1991 is when that happened. Like
17 I said previously, we could never find the
18 source of the spill. In fact, we couldn't find
19 signs of the spill when we got there.

20 Q So that incident in 1991 was apparently a report
21 -- and correct me if I'm wrong -- from the city
22 notifying Conrail that they had discovered some
23 oil in the water?

24 A Uh-huh.

25 Q And you, on behalf of Conrail, did an

1 investigation but were unable to verify that; is
2 that correct?

3 A That's true.

4 Q I think you did say there may have been a report
5 that was generated as a result of that
6 investigation, correct?

7 A There was.

8 Q Can you give me a general idea of where that
9 report would have gone?

10 A I will say Tom Pendergast would have that
11 report.

12 Q And Mr. Pendergast is in Philadelphia, isn't he?

13 A Yes, he is.

14 Q And his job, although I don't know the exact
15 title, has something to do with the
16 environmental aspects of at least the Elkhart
17 yard and perhaps others; is that right?

18 A That's true.

19 Q Can you give us a brief outline of what your
20 understanding is of his job responsibilities?

21 A Well, his job responsibility is -- he's
22 connected with the E.P.A. part of Conrail along
23 with a man by the name of Frank Svoboda. And if
24 you have any spills of any kind going through
25 the superintendent, he's notified and on the job.

1 Q Would they be the best source of information on
2 any spills and the nature of those spills that
3 would go back as far as, let's say, 1960?

4 A I would say this would be true.

5 Q Did you at one time work for Penn Central and
6 New York Central?

7 A Yes, I did.

8 Q Tell me a little about that. I understand that
9 -- I guess it was the New York Central that
10 existed first because you first joined them.

11 A True.

12 Q And then there was a merger, was there not, of
13 Penn Central and the New York Central sometime
14 in the 60s?

15 A It was a merger between New York Central and
16 Pennsylvania Railroad in the 60s. They formed a
17 company called Penn Central. From there we went
18 to Conrail in '76.

19 Q So you would have received paychecks first from
20 New York Central, correct?

21 A Yes.

22 Q And then when the merger was accomplished, you
23 began to receive paychecks from Penn Central?

24 A Uh-huh.

25 Q Until the bankruptcy and the disposition of the

1 assets by the bankruptcy court to Conrail in
2 1976; is that correct?

3 A That's correct.

4 Q Then from '76 to the present, you've been
5 receiving --

6 A Thank God.

7 Q (Continuing) -- thankfully receiving paychecks
8 from Conrail?

9 A Yes.

10 Q Do you know of or have you heard of in the late
11 60s at the Elkhart yard a collision wherein a
12 tank car was derailed and may have spilled
13 hazardous materials in the yard? Do you know
14 anything about that?

15 A You say that I know of or have heard of?

16 Q Of your own personal knowledge.

17 A No.

18 Q What have you heard about it?

19 A Well, I think in talking to my attorney.

20 MR. ERMILIO: Other than conversations
21 with counsel.

22 BY MR. CUNNINGHAM:

23 Q You apparently you reviewed what has taken place
24 a little bit before, namely Brouton's --

25 A Yeah, I never knew Brouton from the railroad.

1 He was -- like I said, he was on the city
2 counsel there for eight years. He was a
3 sergeant on the police department when I knew
4 him. And that's how I knew Sgt. Brouton.

5 Q So of your own personal knowledge, you know
6 nothing of that allegation?

7 A No, I don't.

8 Q Apparently, according to your testimony, in the
9 diesel shop there was, for quite a few years,
10 some attention paid to the collection of
11 materials -- oil, for example -- that would be
12 used there by virtue of the creation of a pit;
13 is that correct?

14 MR. ERMILIO: I don't understand the
15 question?

16 BY MR. CUNNINGHAM:

17 Q You talked about a pit. I think it was in the
18 diesel shop, was it not?

19 A It's an inspection pit inside the locomotive
20 shop. A diesel electric locomotive has traction
21 motors underneath that have to be inspected
22 every 30 days. A man has to get in this pit to
23 get a look at these motors. Those inspection
24 pits had drains in them. That's the drains I'm
25 referring to.

1 Q I envision -- and correct me if I'm wrong in
2 this -- that this pit was to accumulate
3 materials that have come off the trains? That's
4 not correct?

5 A No.

6 Q So it was more of an area to be able to service
7 the trains; is that correct?

8 A The locomotives.

9 Q However, the pit did have a drain?

10 A Uh-huh.

11 Q And if anything ever did get into a pit, it
12 would go out that way?

13 A Yes.

14 Q But it's my understanding from your testimony
15 that no harmful material ever went in that
16 drain; is that correct?

17 A Not to my knowledge.

18 Q Based on what you know?

19 A Yes.

20 Q Well, that helped me clarify that point.

21 Now, this Crawford's Ditch is a different
22 kind of a drainage system apparently that was
23 designed to collect oil; is that right?

24 A Yes.

25 Q And how large is this ditch?

1 A Well, this ditch is probably 25, 30 feet wide
2 and it runs all the way from the Conrail yard to
3 the the St. Joe River.

4 Q So it's quite long?

5 A Oh, yeah.

6 But at the south end of the ditch is where
7 the collecting pond is, and that has been dammed
8 so no oil can get by that. Like I said before,
9 it rises to the top, and the pumps pump it off.

10 Q In other words, it's a pretty effective system,
11 based on your estimation?

12 A Yes. It's inspected every week. Samples are
13 taken, and, yes, it works out good.

14 Q How long has that ditch been there?

15 A Since 1957.

16 Q Used essentially for the same purpose?

17 A Uh-huh.

18 Q Some improvements have been made?

19 A A lot of improvements.

20 Q And I think you outlined a company called Bowen,
21 is that right, -- I may have the wrong spelling
22 -- who apparently did some upgrading? Or give
23 me a name of that company. I can't seem to put
24 my hands on it.

25 A Bowen didn't have anything to do with any part

1 of that.

2 Q Who is Bowen?

3 A Bowen is a construction company that built the
4 main line fuel pad in 1988. And he was
5 responsible for removing a lot of those
6 underground tanks around there.

7 Q Bowen is located where?

8 A Out of Indianapolis, I believe.

9 Q The name John Tantanella was brought up as an
10 individual in the materials department in
11 Chicago. And on Exhibit 3, which is apparently
12 a list of all the hazardous materials that may
13 be used any place in the system, his name is
14 mentioned there.

15 Do you know anything about his connection
16 with Elkhart?

17 A John Tantanella was the supervisor of the store
18 house, the supervisor prior to Bill -- the
19 fellow that's there now, Bill Horvath.

20 Q Again, the questions that we'd be interested in
21 knowing about this case and the environmental
22 aspects were probably answers to the chain of
23 command: Horvath back up to Pendergast. And,
24 as part of that cycle, Tantanella's name would
25 surface; is that right?

1 A I would say so.

2 Q In other words, there would probably be some
3 dialogue or interface between the materials
4 department, I would suspect, and the E.P.A.
5 matters in the company, headed by Pendergast,
6 right?

7 A I don't know.

8 Q You're not sure?

9 A I don't know.

10 Q It's your understanding that ten of 12
11 underground tanks that were eventually removed
12 had been there since the late 50s?

13 A Uh-huh.

14 Q And Pendergast would know the details regarding
15 their removal?

16 A Yes.

17 MR. CUNNINGHAM: I think that's all the
18 questions I have. Thank you.

19 MR. LINDLAND: Just two more questions.

20 REDIRECT EXAMINATION

21 BY MR. LINDLAND:

22 Q Who do you buy the refrigerant from?

23 A Well, Mid-City Supply. But as of July 1st, we
24 no longer buy it from them because we're not
25 licensed to buy it. July 1st is the day the law

1 went into effect, and I have nobody certified to
2 do that job anymore, so I have a contractor with
3 one of the local air conditioning people,
4 Sebelle.

5 Q Sebelle?

6 A S-e-b-e-l-l-e, I believe it is.

7 And they do all of the refrigerant work as
8 of July 1st because we had nobody certified to
9 do that. So who I have been buying it from was
10 Mid-City Supply, but as of July 1st, you need a
11 license to buy it.

12 Q But since you've been working in the Building
13 and Bridges Building you have always bought it
14 from Mid-City Supply?

15 A Right.

16 Q And do you know what the name of that material
17 is?

18 A It's Freon-22.

19 Q I think you mentioned that before.

20 A And there's a Freon-30 that we use also.

21 Q What do you use Freon-30 for?

22 A For the conditioners at the C.R.O. tower for the
23 computer room.

24 Q So you use both 22 and 30?

25 A Yes.

1 Q Would documents reflecting those purchases or
2 the purchases for those materials from Mid-City
3 Supply be in your files for Mid-City?

4 A Sure should be.

5 Q Were there any used cleaners or discontinued
6 materials placed in the waste oil tank?

7 A What waste oil tank?

8 Q You mentioned there was a waste oil tank outside
9 the car shop -- I'm sorry, the engine shop.

10 A No, that's a waste oil tank is when they have a
11 locomotive that has fuel oil that gets in the
12 lube oil and contaminates it to where it
13 possibly could blow the engine. They have a
14 pump that pumps it out into that reclamation
15 tank. And that's what's in it is old lube oil
16 and probably contaminated with fuel oil.

17 Q Is there any, to the best of your knowledge, has
18 there ever been any other material placed in
19 that tank?

20 A Not to my knowledge.

21 Q Are there any other waste oil tanks on the
22 Elkhart property?

23 A Yeah, there is down in the storm sewer area in
24 Crawford's Ditch. There is one there.

25 Q Okay.

1 A Then there is one at the main line fuel pad.

2 Q And the one at the main line fuel pad, has any
3 other material been placed in that tank other
4 than used oil?

5 A No.

6 Q What kind of used oil do they put in that tank?

7 A Fuel oil.

8 Q Not lube oil but fuel oil?

9 A Yeah. It's 99 percent fuel oil.

10 Q Okay.

11 MR. LINDLAND: No further questions.

12 MR. ERMILIO: No questions.

13 MR. LINDLAND: He'll read and sign it.

14 (Deposition concluded at 2:35 o'clock p.m.)

15 + + + o0o + + +

16

17

18

William Martin

19

SUBSCRIBED AND SWORN to before

20

me this ____ day of _____,

21

A.D., ____.

22

23

Notary Public, State of Indiana

24

County of Residence:

25

My Commission Expires:

CERTIFICATE

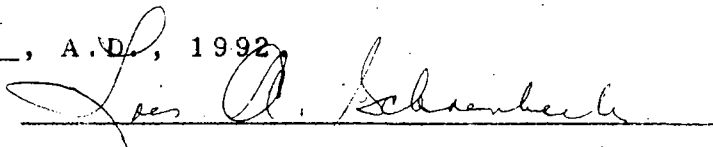
I, Lois A. Schoenbeck, a Notary Public in and for the County of Porter and State of Indiana, do hereby certify there appeared before me at the said time and place WILLIAM MARTIN, who was first duly sworn by me to testify the truth, the whole truth, and nothing but the truth to questions propounded at the taking of the foregoing deposition.

I further certify that I then and there reported in machine shorthand the proceedings at the said time and place; that the proceedings were then reduced to typewriting from my original shorthand notes; and that the foregoing typewritten transcript is a true and correct record thereof.

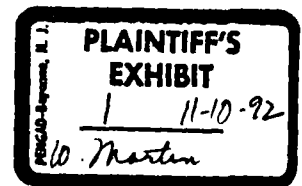
I further certify that the deposition was read and signed in the presence of a duly authorized officer.

IN WITNESS WHEREOF I have hereunto set my hand and affixed my notarial seal this ____ day of

_____, A.D., 1992



Lois A. Schoenbeck, Notary Public
State of Indiana, Porter County
My Commission Expires 08-19-94



UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF INDIANA
SOUTH BEND DIVISION

UNITED STATES OF AMERICA,

Plaintiff,

v.

CONSOLIDATED RAIL CORPORATION,
a/k/a CONRAIL,

Defendant.

CIVIL ACTION NO.
S90-00056

Judge Robert J. Miller

NOTICE OF RULE 30(b)(6) DEPOSITION

Pursuant to Federal Rules of Civil Procedure 30 and 34, plaintiff the United States of America shall take the deposition of the defendant Consolidated Rail Corporation pursuant to Fed. R. Civ. P. 30(b)(6) at 10:00 am on Wednesday, September 16, 1992 at the Office of The United States Attorney for the Eastern District of Pennsylvania, 615 Chestnut Street, Suite 1250, Conference Room 1, Philadelphia, Pennsylvania, 19106. The deposition will continue from day to day thereafter. The subject matter on which examination is requested is set forth below. The aforementioned defendant shall designate one or more persons who shall testify as to matters known or reasonably available to the defendants on the subject matter set forth below. Pursuant to Fed. R. Civ. P. 34, the defendant is requested to bring to the deposition any documents relevant to the subject matter listed below that have not been previously produced.

All terms defined in the United States' Interrogatories shall have the same meaning herein.

The subject matter of the deposition is as follows:

MATTERS ON WHICH EXAMINATION IS REQUESTED

1. Your preparation of responses to the United States' Interrogatories and Request for Production of Documents (all sets) including interviews of or other contacts with employees, former employees, or contractors, and document searches conducted in the preparation of such responses. The matters inquired into through the United States' Interrogatories and Requests for Production of Documents are incorporated herein, and may be examined upon in this deposition.

2. Your document retention policies and the location and existence of documents relating to your operations.

3. Any investigation, interviews, record searches, measurements, modeling, analysis, quality assurance, quality control, studies, tests, sampling, or other data-gathering projects with respect to the Conrail Site.

4. Any study performed or conducted or any investigation to determine the existence and extent of any contamination of soils or groundwater at or near the Site, including without limitation, the nature of the study or investigation, the date(s) on which the study was conducted, all persons who conducted the study, the findings and conclusion of such study, and any reports or documents relating to such study.

5 Any investigations by you or any person acting on your behalf (performed at any time) into your handling,

treatment, transportation, storage or disposal of any type of hazardous substance or oil at the Conrail Site.

6. The operation and management of any facility with respect to the purchase, production, disposal, treatment, handling, storage or transportation of hazardous substances or oil at the Conrail Site.

7. The physical plant and layout of operations of the Conrail Railyard.

8. All operations of the Conrail Railyard and rail cars, including without limitation, the receiving, classifying, switching, humping, coupling, inspecting, processing, and departure of railcars; maintenance and repair of cars, tracks, and other equipment; fueling and refueling of cars and other equipment; disposal of waste, including without limitation, scrap; and any other operations performed.

9. The duties of all classifications of personnel, at the Conrail Railyard, including without limitation, all classifications of the following: terminal superintendant, terminal general car foreman, assistant division engineer, shop superintendant, pad foreman, road formen, trainmaster, yardmasters, stations department, assistant superintendent, switch tender, trainman, all maintenance personnel and the areas of responsibility of each union.

10. All processes, including without limitation, cleaning, greasing, degreasing, oiling, or mechanical repairs of

tracks, machinery, or rail cars, and any industrial processes, used at the Conrail railyard.

11. The source, purchase, and transport of compounds, chemicals, oils, substances, or other materials used in any of the processes, as identified in the preceeding paragraph, used at the Conrail Railyard.

12. Any spills, leaks, accidents, planned or unplanned instances known or suspected to involve solvents, greaseres, degreasers, hazardous substances, or oil, at the Conrail Site, whether or not such spills, leaks, accidents, or instances resulted in a release of such substances into the environment.

13. Your contracts, agreements and any other arrangements and any other communications with any person regarding the handling, transportation, treatment, storage or disposal of hazardous substances or oil at or through the Conrail Railyard.

14. Any contracts, rules, regulations, agreements, indemnifications, waivers, notices, shipping logs, waybills or any other communications or communications with any person regarding Conrail's handling of hazardous substances or oil which it or any other companies' rail cars carries.

15. The policies and practices for disposal, storage, reclamation, or recycling of chemicals, solvents, oil, or any hazardous substances at the Conrail Railyard.

16. The testing, analysis, or inspection of the contents or exterior of rail cars entering, exiting, passing by

or through. stored in, or standing in the Conrail Railyard, including without limitation, testing, analysis, or inspection for hazardous substances or oil.

17. The relationship, agreements, contracts, between Conrail and any prior or succeeding corporate affiliates, subsidiaries, or predecessors, or any other persons or parties that owned or operated the Conrail Railyard, including without limitation, Penn Central and the New York Central.

18. Implementation of and decisions regarding compliance with the Administrative Order U.S. EPA Docket No. V-W-92-C-157, issued by EPA July 7, 1992, including development of the Work Plan.

19. The layout, construction, operation, cleaning, and maintainance of any drainage system existing now or in the past at the Conrail Railyard.

20. The burial or disposition of an object, substance, or other material, whether liquid, solid, or gaseous, whether contained or uncontained, at or in the vicinity of the Conrail Site, including without limitation, the burial of railway equipment, railcars, or the pouring of liquids or oils onto the ground or into any drainage system.

21. Any inspections, due diligence, or other review of the Conrail Site or the Railyard or documents, information, data, or any other information reviewed prior to acquisition of the Conrail Site whether performed by or for Conrail or any governmental entity, contractor, or agent of these.

22. The formation, incorporation, and legal creation of Conrail, including without limitation, the involvement of Congress and/or any governmental agency, department, organization, commission, authority, or entity, and any advise, study, analysis, direction, or requirements of any such governmental entity with respect to Conrail's ownership, operations, property, organization, or services.


23. The Railway Reorganization Act and the United States Railway Association as they relate to the formation of Conrail, its ownership, operations, property, organization, or services, including without limitation, the assumption of liabilities and any requirements regarding property to be acquired.

24. Any reallocations or readjustments of Conrail securities or United States Railway Association obligations or any other adjustments or decisions made by the Special Court relating to the acquisition of property, interests, or obligations of any property or rail company, including without limitation, Penn Central.

Dated this 10th day of September 1992.

UNITED STATES OF AMERICA

VICKI A. O'MEARA
Acting Assistant Attorney General
Environment and Natural Resources Division



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Environment and Natural Resources Division
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JAMES G. RICHMOND
United States Attorney
Northern District of Indiana

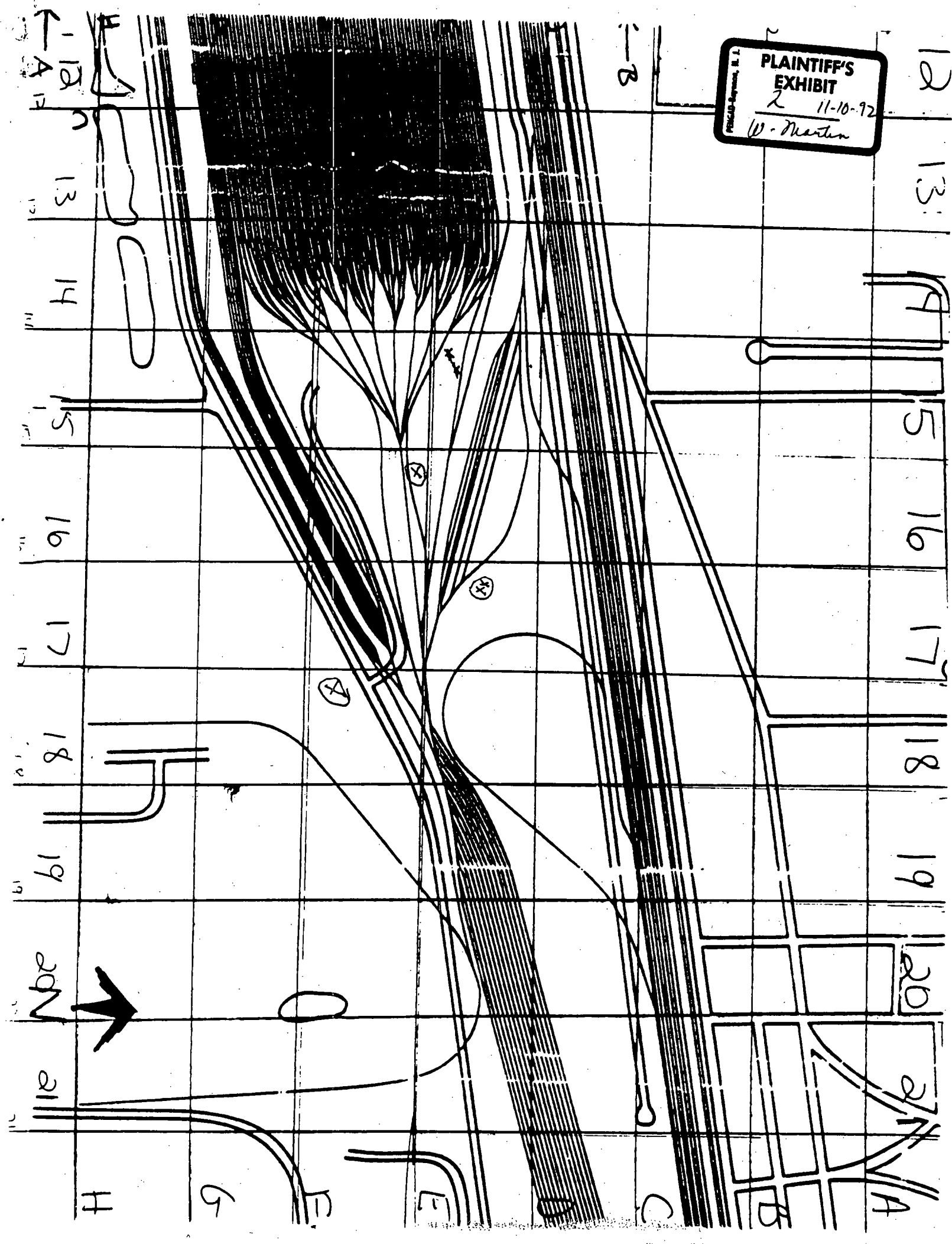
CLIFFORD JOHNSON
Assistant United States Attorney
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South Bend, Indiana 46601

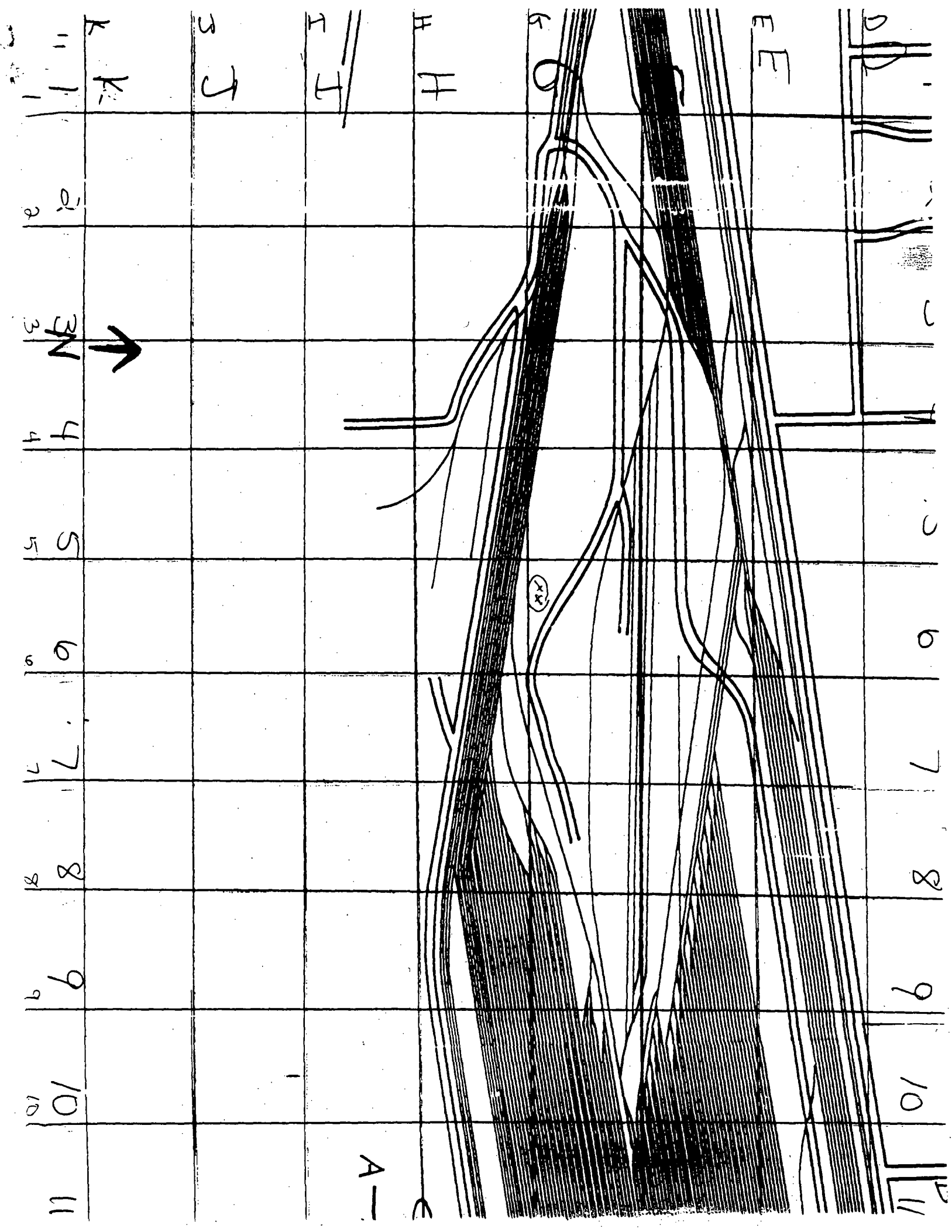
OF COUNSEL:

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Assistant Regional Counsel
U.S. Environmental Protection Agency
Region V
230 S. Dearborn Street
Chicago, IL 60604
(312) 886-6851

L 11-10-92
W. Martin

W - Martin





CONSOLIDATED RAIL CORPORATION

Shop Name / Plant Name ELKHART CAR SHOP		Region WESTERN	
Division CHICAGO		Subshop or Location Survey Was Made MATERIAL DEPT. ELKHART INDIANA	
Street Address of Shop/Plant RTE. 19 + LUSHER		City ELKHART	State IND.
Mailing Address (if different) PO 1666		Zip 46515	
Name and Employee Number Making Survey JOHN R. TANTANELLA 750FS2		Signature <i>John R. Tantanello</i>	

1 Hazardous Substances Present at Workplace During Prior Yr

From 3/1/86 Thru 3/1/87

is Survey Must Be Updated Annually



INSTRUCTIONS ON HOW TO FILL OUT FORM

These forms are of the checklist variety. Pages 1,2 and Part of 3 are commonly used hazardous substances that do not have CAS numbers (CAS-Chemical Abstract Service Number). Pages 3 thru 31 are the balance of hazardous substances that have CAS numbers assigned to them. This number can be found on the container and/or the material safety data sheet.

The first part of the form (Pages 1,2, and Part of 3) are listed in alphabetical order. The 2nd part of the form the substances are listed numerical by CAS number. Just check off the substance listed once the survey has been completed and the appropriate sheets marked.

Just the marked sheets and cover page: The original to be filed at the shop office and maintained for review by System Safety and/or government officials whos job it is to see the form and local emergency organizations by written request. One (1) copy to be posted on the employee information bulletin board and 1 copy sent to System Safety Office.

Attachment S

--ANY COMPOUND OF THIS SUBSTANCE
IS ALSO AN ENVIRONMENTAL HAZARD
E-ENVIRONMENTAL HAZARD
S-SPECIAL HAZARDOUS SUBSTANCE

HAZARDOUS SUBSTANCE LISTS
HAZARDOUS SUBSTANCE SURVEY FORM
PART II
PRINTED BY CAS NO.

ENTER X TO INDICATE SUBSTANCE PRESENT AT WORKPLACE

CAS NO. (A)	CAS PREFERRED CHEMICAL NAME (B)
E	ACETIC ACID, WATER SOLUTIONS
	ACETOACET-ORTHO-TOLUIDIDE
	ALLYL PROPENYL
	ALPHA, BETA-GLYCERIN DICHLOROHYDRIN
	ALUMINUM ALKYL
	ALUMINUM DUST
	ALUMINUM PYRO POWDERS
	ALUMINUM SOLUBLE SALTS
	ALUMINUM WELDING FUMES
S	ANALGESIC MIXTURES CONTAINING PHENACETIN
S	ANTHOPHYLLITE
S	AURAMINE MANUFACTURE
	BENZOL DILUENT
ES	BERYLLIUM ALUMINUM ALLOY
E	BERYLLIUM DUST
	BICHROMATES
	BIS(2-(2-CHLOROETHOXY)ETHYL)ETHER
S	BISCHLOROETHYL NITROSUREA
S	BOOT AND SHOE MANUFACTURE AND REPAIR (CERTAIN EXPOSURES)
	BORNED CAMPHOR
	BONZING LIQUID
	BUTENES
	BUTYL LITHIUM IN HYDROCARBON SOLVENTS
E	CADMIUM DUST
E	CADMIUM FUME
ES	CADMIUM POWDER
E	CAUSTIC ARSENIC OIL
	CERTAIN COMBINED CHEMOTHERAPY FOR LYMPHOMAS (INCLUDING HOPP)
	CHLORINATED DIPHENYL OXIDE
ES	CHLOROPHENOLS
	CHROMITE ORE PROCESSING (CHROMATE)
ES	CHROMIUM COMPOUNDS, HEXAVALENT
	COAL DUST
	COAL GAS
S	COAL GASSIFICATION PROCESS
S	COAL SOOT
	COAL TAR PITCH VOLATILES
S	COBALT CHROMIUM ALLOY
	COBALT FUME
S	COKE OVEN EMISSIONS
	COKE-OVEN GAS
	COMBINED ORAL CONTRACEPTIVES
S	CONJUGATED ESTROGENS
E	COPPER DUST
E	COPPER FUME
	COTTON DUST
	CRISTOBALITE DUST
E	CUPRIC OXALATE
	DEMATURED ALCOHOL
S	DIBENZO(A, L)PYRENE
	DIBENZOYL CHLORIDE
	DICHLOROPENTANES
	DICHROMATES
S	DIENDESTROL
	DIESEL FUEL OIL
	DIETHYL ACETOACETATE
	DIMETHYLPYPERAZINE-CIS
	ETHYL ALCOHOL AND WATER
	FIBROUS GLASS DUST
	FLUORIDE DUST
	FUEL OIL
S	FURNITURE MANUFACTURE (MAKING)
	GASOLINE (CASTROL/AD)
	GRAPHITE (SYNTHETIC)
	HEMATITE UNDERGROUND MINING (WITH EXPOSURE TO RASON)
	HEXACHLORO DIPHENYL OXIDE
	HYDRAZINE (ANHYDROUS)
E	INORGANIC ARSENIC

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HAZARDOUS SUBSTANCE LISTS
HAZARDOUS SUBSTANCE SURVEY FORM
PART II
PRINTED BY GAS NO.

ENTER X TO INDICATE SUBSTANCE PRESENT AT WORKPLACE

EE	GAS NO. (A)	GAS PREFERRED CHEMICAL NAME (B)
		IRON SALTS
		ISOCTENES
S		ISOPROPYL ALCOHOL MANUFACTURE (STRONG-ACID PROCESS)
		JET FUELS JET B
		JET FUELS JP-4
		JET FUELS JP-6
E		LEAD (IV) ARSONATE
		LIQUEFIED NATURAL GAS
		LITHIUM DICHROMATE
		MANGANESE TETROXIDE
S		MANUFACTURE OF MAGENTA
E		MERCURY ALKYL
E		MERCURY NON-ALKYL VAPOR
E		MERCURY, ARYL AND INORGANIC COMPOUNDS
S		METHOXSALEN WITH ULTRA-VIOLET A THERAPY
		MINERAL OIL MIST
		MINERAL WOOL FIBER
		MONO-(TRICHLORO) TETRA (MONOPOTASSIUM DICHLORO)-PENTA-S-TRIAZINE-TRIONE
		MONOCHLORO-S-TRIAZINETRIONE ACID
		MONOMETHYL ANILINE
		MOTOR FUEL ANTIKNOCK COMPOUNDS
		NAPHTHA V.M. + P. HIGH FLASH
		NAPHTHA V.M. + P. REGULAR
		NAPHTHA V.M. + P. 50 DEGREE FLASH
		NAPHTHA 48 DEGREE BE-COAL TAR TYPE
E		NICKEL CATALYST
E		NICKEL REFINING
E		NICKEL SULFIDE ROASTING FUME
		NITRIC ETHER
		OIL OIL
		ORGANO(ALKYL)MERCURY
		PARTICULATE POLYCYCLIC AROMATIC HYDROCARBONS
		PENT-ACETATE
		PERACETIC ACID DILUTED WITH 50 OF ACETIC ACID
		PERLITE DUST
		PETROLEUM DISTILLATES
S		PHENOXYACETIC ACID HERBICIDES
		PHENYL ETHER-BIPHENYL MIXTURE
		PINE TAR OIL
		PLATINUM SOLUBLE SALTS
		POLYCHLOROBIPHENYLS
		PYROXYLIN SOLUTION
		QUARTZ DUST
		QUENCHING OIL
		RADIOISOTOPES
		RHODIUM FUME
		ROSIN CORE SOLDER PYROLYSIS PRODUCTS
S		RUBBER INDUSTRY (MANUFACTURE)
		RUBBER SOLVENT
		SEC-NONYL ACETATE
		SOAPSTONE DUST
S		SODIUM SALT OF PHENYTOIN
		SODIUM-POTASSIUM ALLOYS
S		SOLVENT (BENZENE) EXTRACTS OF MOST CARBON BLACKS
S		SOOTS, TARS AND OILS
S		SOOTS, TARS, AND MINERAL OILS
		SPEARM OIL NO. 2
		STRONTIUM DICHROMATE
		SUBSTITUTED
		TALLOW OIL
		TERPENE OILS
S		TESTOSTERONE ESTERS
		TRANS-ACETYLENE DICHLORIDE
		TRANSFORMER OIL
		TURBO FUELS
		VANADIUM DUST
		VANADIUM FUME
		VEGETABLE OIL MISTS

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S-SPECIAL HAZARDOUS SUBSTANCE

HAZARDOUS SUBSTANCE LIST
HAZARDOUS SUBSTANCE SURVEY FORM
PART II
PRINTED BY CAS NO.

ENTER X TO INDICATE SUBSTANCE PRESENT AT WORKPLACE

CAS NO. (1)	CAS PREFERRED CHEMICAL NAME (2)
	WATER GAS (CARBURETED)
	WELDING FUMES
	WOOD DUST
	XYLIDINES
E	ZINC CHLORIDE FUME
E	ZINC OXIDE FUME
	ZIRCONIUM POWDER
	1-DIBUTYLAMINO-2-PROPANOL
	1,2-ETHYLIDENE DICHLORIDE
E	1,2/1,3 DICHLOROPROPYLENE
	1,3-DICHLORA-2-PROPANOL
	2-ETHOXY-3,4-DI-HYDRO-2-PYRAN
	2-HEXENE (MIXED CIS-AND TRANS-ISOMERS)
	2-OCTENE (MIXED CIS-AND TRANS-ISOMERS)
	2-BETA-BUTOXYETHOXYETHYL CHLORIDE
E	2,4,5-T AMINES
S	3-AMINO-1-METHYL-5-M-PYRIDO(4,3-B)INDOLE ACETATE
S	3-AMINO-1,4-DIMETHYL-5-M-PYRIDO(4,3-B)INDOLE ACETATE
	3-HEPTENE (MIXED CIS AND TRANS)
ES	50-00-0 FORMALDEHYDE
ES	50-07-7 AZIRINO(2',3':3,4)PYRROLO(1,2-A)INDOLE-4,7-DIONE, 6-AMINO-8-[[[(AMINOCARBONYLOXY)METHYL]-1,1A,2,8,8A,8B-HEXAHYDRO-8A-METHOXY-5-METHYL-, [1AS-(1A,APHA,8,8B TA,8A,ALPHA,8B,ALPHA)]]-
ES	50-18-0 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE
S	50-28-2 ESTRA-1,3,5(10)-TRIENE-3,17-DIOL (17.BETA.)-
ES	50-29-3 BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS(4-CHLORO-
ES	50-32-8 BENZO(A)PYRENE
ES	50-55-8 YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[[[3,4,5-TRIMETHOXYBENZOYL)OXY]-METHYL ESTER, (3.BETA.,16.BETA.,17.ALPHA.,18.BETA.,20.ALPHA.)-
S	50-76-0 ACTINOMYCIN D
	50-78-2 BENZOIC ACID, 2-(ACETOXY)-
E	51-28-8 PHENOL, 2,4-DINITRO-
ES	51-52-5 4(1H)-PYRIMIDINONE, 2,3-DIHYDRO-6-PROPYL-2-THIOXO-
ES	51-78-6 CARBAMIC ACID, ETHYL ESTER
ES	52-24-4 AZIRIDINE, 1,1',1''-PHOSPHINOTHIOLYDIONETRIC-
E	52-68-6 PHOSPHONIC ACID, (2,2,2-TRICHLORO-1-HYDROXYETHYL)-, DIMETHYL ESTER
S	53-16-7 ESTRA-1,3,5(10)-TRIEN-17-ONE, 3-HYDROXY-
ES	53-70-3 DIBENZ(A,M)ANTHRACENE
ES	53-96-3 ACETAMIDE, N-6H-FLUOREN-2-YL-
E	54-11-8 PYRIDINE, 3-((1-METHYL-2-PYRROLIDINYL)-, (S)-
ES	55-18-5 ETHANAMINE, N-ETHYL-N-NITROSO-
	55-38-9 PHOSPHOROTHIOIC ACID, 0,0-DIETHYL 0-[3-METHYL-4-(METHYLTHIO)PHENYL] ESTER
E	55-63-0 1,2,3-PROPANETRIOL, TRINITRATE
ES	55-86-7 ETHANAMINE, 3-CHLORO-N-(2-CHLOROETHYL)-N-METHYL-, HYDROCHLORIDE
S	55-88-1 1,4-BUTANEDIOL, DIMETHANE SULFONATE
ES	56-04-2 4(1H)-PYRIMIDINONE, 2,3-DIHYDRO-6-METHYL-2-THIOXO-
ES	56-23-8 METHANE, TETRACHLORO-
E	56-38-2 PHOSPHOROTHIOIC ACID, 0,0-DIETHYL 0-(4-NITROPHENYL) ESTER
ES	56-49-5 BENZ(A)ACANTHYLENE, 1,3-DIHYDRO-3-METHYL-
ES	56-63-1 PHENOL, 4,4'-((1,3-DIETHYL-1,3-ETHENEDIYL)BIS-, (E)-
ES	56-55-3 BENZ(A)ANTHRACENE
E	56-57-5 QUINOLINE, 4-NITRO-, 1-OXIDE
E	56-73-4 PHOSPHOROTHIOIC ACID, 0-(3-CHLORO-4-METHYL-2-OXD-2H-1-BENZOPYRAN-7-YL) 0,0-DIETHYL ESTER
S	56-78-7 ACETAMIDE, 2,2-DICHLORO-N-(2-HYDROXY-1-(HYDROXYMETHYL)-2-(4-NITROPHENYL)ETHYL)-, (R-(R',R'))-
	56-81-5 1,2,3-PROPANETRIOL
	57-06-7 1-PROPENE, 3-ISOTHIOCYAMATO-
E	57-12-5 CYANIDE
ES	57-14-7 HYDRAZINE, 1,1-DIMETHYL-
E	57-24-9 STRYCHNIDIN-10-ONE
S	57-41-0 2,4-DIAZOLIDINEDIONE, 5,5-DIPHENYL-
	57-80-1 .ALPHA.-D-GLUCOPYRANOSIDE, .BETA.-D-FRUCTOFURANOSYL
	57-85-6 1,2-PROPANEDIOL
S	57-87-8 2-OXETANE
S	57-83-6 18-NORPRIMA-1,2,5(10)-TRIEN-20-THE-3,17-DIOL, (17.ALPHA.)-

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PART II
PRINTED BY CAS NO.

ENTER X TO INDICATE SUBSTANCE PRESENT AT WORKPLACE

V	YES	CAS NO. (A)	CAS PREFERRED CHEMICAL NAME (B)
[]	E	57-74-9	4,7-METHANO-1H-INDENE, 1,2,4,5,6,7,8,8-OCTACHLORO-2,3,3A,4,7,7A-HEXAHYDRO-
[]	S	57-43-0	PRELUN-4-ENE-3,20-DIONE
[]	ES	57-97-6	BENZ(A)ANTHRACENE, 7,12-DIMETHYL-
[]	S	58-22-0	ANDROST-4-EN-3-ONE, 17-HYDROXY-, (17.BETA.)-
[]	ES	58-89-8	CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1.ALPHA.,2.ALPHA.,3.BETA.,4.ALPHA.,5.ALPH 4..6.BETA.)-
[]	E	59-50-7	PHENOL, 4-CHLORO-3-METHYL-
[]	ES	59-89-2	MORPHOLINE, 4-NITROSO-
[]	S	59-96-1	BENZENEMETHANAMINE, N-(2-CHLOROETHYL)-N-(1-METHYL-2-PHENOXYETHYL)-
[]	E	60-00-4	GLYCINE, N,N'-1,2-ETHANEDIYLBIS(N-(CARBOXYMETHYL)-
[]	S	60-11-7	BENZINAMINE, N,N-DIMETHYL-4-(PHENYLAZO)-
[]	[]	60-24-2	ETHANOL, 2-MERCAPTO-
[]	[]	60-29-7	ETHANE, 1,1'-OXYBIS-
[]	[]	60-34-4	HYDRAZINE, METHYL-
[]	E	60-57-1	2,7,3,8-DIMETHANONAPHTH(2,3-B)OXIRENE, 3,4,5,6,9,9-HEXACHLORO-1A,2,2A,3,6,6A,7,7 A-OCTAHYDRO-, (1A.ALPHA.,2.BETA.,2A.ALPHA.,3.BETA.,6.BETA.,6A.ALPH.,7.BETA. 7A.ALPHA.)-
[]	S	61-57-4	2-IMIDAZOLIDINONE, 1-(5-NITRO-2-THIAZOLYL)-
[]	ES	61-82-5	1H-1,2,4-TRIAZOL-3-AMINE
[]	E	62-38-4	MERCURY, (ACETATO-O)PHENYL-
[]	ES	62-44-2	ACETAMIDE, N-(4-ETHOXYPHENYL)-
[]	ES	62-50-0	METHANESULFONIC ACID, ETHYL ESTER
[]	E	62-53-3	BENZENAMINE
[]	ES	62-55-5	ETHANETHIOAMIDE
[]	ES	62-56-6	THIOUREA
[]	E	62-73-7	PHOSPHORIC ACID, 2,2-DICHLOROETHENYL DIMETHYL ESTER
[]	E	62-74-8	ACETIC ACID, FLUORO-, SODIUM SALT
[]	ES	62-75-8	METHANAMINE, N-METHYL-N-NITROSO-
[]	E	62-75-2	1-NAPHTHALENOL, METHYLCARBANATE
[]	S	63-82-3	BENZENEMETHANAMINE, N-(2-CHLOROETHYL)-N-(1-METHYL-2-PHENOXYETHYL)-, HYDROCHLORID
[]	E	64-17-5	ETHANOL
[]	E	64-18-6	FORMIC ACID
[]	E	64-19-7	ACETIC ACID
[]	S	64-67-5	SULFURIC ACID, DIETHYL ESTER
[]	E	65-85-0	BENZOIC ACID
[]	[]	66-25-1	HEXANAL
[]	ES	66-27-3	METHANESULFONIC ACID, METHYL ESTER
[]	ES	66-75-1	2,4(1H,3H)-PYRIMIDINEDIONE, 8-((2-(2-CHLOROETHYL)AMINO)-
[]	[]	66-81-8	2,6-PIPERIDINEDIONE, 4-((2-(3,5-DIMETHYL-2-OXOCYCLOHEXYL)-2-HYDROXYETHYL)-, (1S-[1.ALPHA.(S'),3.ALPHA.,5.BETA.))-
[]	[]	67-56-1	METHANOL
[]	[]	67-63-0	2-PROPANOL
[]	[]	67-64-1	2-PROPANONE
[]	ES	67-66-3	METHANE, TRICHLORO-
[]	E	67-72-1	ETHANE, HEXACHLORO-
[]	[]	68-11-1	ACETIC ACID, MERCAPTO-
[]	[]	68-12-2	FORMAMIDE, N,N-DIMETHYL-
[]	S	68-22-4	18-NORPREN-4-EN-20-YN-3-ONE, 17-HYDROXY-, (17.ALPHA.)-
[]	S	68-76-8	2,5-CYCLOHEXADIENE-1,4-DIONE, 3,3,5-TRIS(1-AZIRIDINYL)-
[]	ES	70-25-7	GUANIDINE, N-METHYL-N'-NITRO-N-NITROSO-
[]	[]	71-23-8	1-PROPANOL
[]	[]	71-36-3	1-BUTANOL
[]	[]	71-41-0	1-PENTANOL
[]	ES	71-43-2	BENZENE
[]	E	71-65-6	ETHANE, 1,1,1-TRICHLORO-
[]	E	72-20-8	2,7,3,8-DIMETHANONAPHTH(2,3-B)OXIRENE, 3,4,5,6,9,9-HEXACHLORO-1A,2,2A,3,6,6A,7,7 A-OCTAHYDRO-, (1A.ALPHA.,2.BETA.,2A.BETA.,3.ALPHA.,6.ALPHA.,6A.BET.,7.BETA. 7A.ALPHA.)-
[]	S	72-33-3	18-NORPREN-4-EN-20-YN-17-OL, 3-METHOXY-, (17.ALPHA.)-
[]	E	72-43-5	BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS(4-METHOXY-
[]	E	72-64-8	BENZENE, 1,1'-(2,2-DICHLOROETHYLIDENE)BIS(4-CHLORO-
[]	E	72-88-8	BENZENE, 1,1'-(DICHLOROETHENYLIDENE)BIS(4-CHLORO-
[]	ES	72-87-1	2,7-NAPHTHALENEDISULFONIC ACID, 3,3'-((3,3'-DIMETHYL(1,1'-BIPHENYL)-4,4'-DIYL)BI S(AZO))BIS(5-AMINO-4-HYDROXY-, TETRASODIUM SALT
[]	[]	74-82-8	METHANE
[]	E	74-83-8	METHANE, BROMO-
[]	[]	74-84-0	ETHANE

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ES	CAS NO. (A)	CAS PREFERRED CHEMICAL NAME (B)
	74-83-1	ETHYLENE
	74-86-2	ETHYLENE
E	74-87-3	METHANE, CHLORO-
ES	74-88-4	METHANE, IODO-
E	74-89-5	METHANAMINE
E	74-90-8	HYDROCYANIC ACID
E	74-93-1	METHANETHIOL
	74-96-4	ETHANE, BROMO-
	74-97-5	METHANE, BROMOCHLORO-
	74-98-6	PROPANE
	74-99-7	1-PROPYLENE
E	75-00-3	ETHANE, CHLORO-
ES	75-01-4	ETHYLENE, CHLORO-
	75-02-5	ETHYLENE, FLUORO-
E	75-04-7	ETHANAMINE
E	75-05-8	ACETONITRILE
E	75-07-0	ACETALDEHYDE
	75-08-1	ETHANETHIOL
E	75-09-2	METHANE, DICHLORO-
	75-12-7	FORMAMIDE
E	75-15-0	CARBON DISULFIDE
	75-18-3	METHANE, THIOIS-
	75-19-4	CYCLOPROPANE
E	75-20-7	CALCIUM CARBIDE (CAC2)
ES	75-21-8	OXIRANE
	75-24-1	ALUMINUM, TRIMETHYL-
E	75-25-2	METHANE, TRIBROMO-
E	75-27-4	METHANE, BROMODICHLORO-
	75-28-5	PROPANE, 2-METHYL-
	75-29-6	PROPANE, 2-CHLORO-
	75-31-0	2-PROPANAMINE
E	75-34-3	ETHANE, 1,1-DICHLORO-
E	75-35-4	ETHYLENE, 1,1-DICHLORO-
E	75-36-5	ACETYL CHLORIDE
	75-38-7	ETHYLENE, 1,1-DIFLUORO-
	75-43-4	METHANE, DICHLOROFUORO-
E	75-44-5	CARBONIC DICHLORIDE
	75-45-6	METHANE, CHLORODIFLUORO-
	75-47-8	METHANE, TRIODO-
E	75-50-3	METHANAMINE, N,N-DIMETHYL-
	75-52-5	METHANE, NITRO-
	75-54-7	SILANE, DICHLOROMETHYL-
S	75-55-8	AZIRIDINE, 2-METHYL-
E	75-56-9	OXIRANE, METHYL-
	75-61-6	METHANE, DIBROMODIFLUORO-
	75-63-8	METHANE, BROMOTRIFLUORO-
E	75-64-9	2-PROPANAMINE, 2-METHYL-
	75-65-0	2-PROPANOL, 2-METHYL-
	75-66-1	2-PROPANETHIOL, 2-METHYL-
	75-68-3	ETHANE, 1-CHLORO-1,1-DIFLUORO-
E	75-69-4	METHANE, TRICHLOROFUORO-
E	75-71-8	METHANE, DICHLORODIFLUORO-
E	75-74-1	PLUMBANE, TETRAMETHYL-
	75-77-4	SILANE, CHLOROTRIMETHYL-
	75-78-5	SILANE, DICHLORODIMETHYL-
	75-79-6	SILANE, TRICHLOROMETHYL-
	75-83-2	BUTANE, 2,2-DIMETHYL-
	75-84-3	1-PROPANOL, 2,2-DIMETHYL-
	75-85-4	2-BUTANOL, 2-METHYL-
E	75-86-5	PROPANENITRILE, 3-HYDROXY-2-METHYL-
	75-91-2	HYDROPEROXIDE, 1,1-DIMETHYLETHYL
	75-94-5	SILANE, TRICHLOROMETHYL-
E	75-99-0	PROPANOIC ACID, 2,2-DICHLORO-
	76-03-9	ACETIC ACID, TRICHLORO-
	76-06-2	METHANE, TRICHLORONITRO-
	76-11-9	ETHANE, 1,1,1,2-TETRACHLORO-2,2-DIFLUORO-
	76-12-0	ETHANE, 1,1,2,2-TETRACHLORO-1,2-DIFLUORO-
	76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,2-TRIFLUORO-

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CAS NO. (A)	CAS PREFERRED CHEMICAL NAME (B)
76-15-3	ETHANE, CHLOROPENTAFLUORO-
76-22-2	BICYCLO(2.2.1)HEPTAN-2-ONE, 1,7,7-TRIMETHYL-
E 76-44-8	4,7-METHANO-1H-INDENE, 1,4,5,6,7,8,8-HEPTACHLORO-3A,4,7,7A-TETRAHYDRO-
E 77-47-4	1,3-CYCLOPENTADIENE, 1,2,3,4,5,5-HEXACHLORO-
77-73-6	4,7-METHANO-1H-INDENE, 3A,4,7,7A-TETRAHYDRO-
ES 77-78-1	SULFURIC ACID, DIMETHYL ESTER
E 78-00-2	PLUMBANE, TETRAETHYL-
78-10-4	SILICIC ACID (MASIO4), TETRAETHYL ESTER
78-30-8	PHOSPHORIC ACID, TRIS(2-METHYLPHENYL) ESTER
78-34-2	PHOSPHORODITHIOIC ACID, 3,5'-1,4-DIOXANE-2,3-DIYL O,O,O',O'-TETRAETHYL ESTER
E 78-59-1	2-CYCLOHEXEN-1-ONE, 3,5,5-TRIMETHYL-
78-67-1	PROPANENITRILE, 2,2'-AZOBIS(2-METHYL-
78-78-4	BUTANE, 2-METHYL-
E 78-79-5	1,3-BUTADIENE, 2-METHYL-
78-80-8	1-BUTEN-3-YNE, 2-METHYL-
E 78-81-9	1-PROPANAMINE, 2-METHYL-
78-82-0	PROPANENITRILE, 2-METHYL-
E 78-83-1	1-PROPANOL, 2-METHYL-
78-84-2	PROPANAL, 2-METHYL-
78-85-3	2-PROPENAL, 2-METHYL-
78-86-4	BUTANE, 2-CHLORO-
E 78-87-5	PROPANE, 1,2-DICHLORO-
E 78-88-6	1-PROPENE, 2,3-DICHLORO-
78-89-7	1-PROPANOL, 2-CHLORO-
78-90-0	1,2-PROPANEDIAMINE
78-92-2	2-BUTANOL
E 78-93-3	2-BUTANONE
78-94-4	3-BUTEN-2-ONE
78-96-6	2-PROPANOL, 1-AMINO-
78-97-7	PROPANENITRILE, 2-HYDROXY-
E 78-99-8	PROPANE, 1,1-DICHLORO-
E 79-00-5	ETHANE, 1,1,2-TRICHLORO-
E 79-01-6	ETHENE, TRICHLORO-
79-03-8	PROPANOL CHLORIDE
79-04-9	ACETYL CHLORIDE, CHLORO-
E 79-06-1	2-PROPANAMIDE
E 79-08-4	PROPANOIC ACID
79-10-7	2-PROPENOIC ACID
79-11-8	ACETIC ACID, CHLORO-
79-20-9	ACETIC ACID, METHYL ESTER
79-21-0	ETHANEPEROXIC ACID
79-24-3	ETHANE, NITRO-
79-27-6	ETHANE, 1,1,2,2-TETRABROMO-
79-28-8	BUTANE, 2,3-DIMETHYL-
E 79-31-2	PROPANOIC ACID, 2-METHYL-
E 79-34-5	ETHANE, 1,1,2,2-TETRACHLORO-
79-36-7	ACETYL CHLORIDE, DICHLORO-
79-38-9	ETHENE, CHLOROTRIFLUORO-
79-41-4	2-PROPENOIC ACID, 2-METHYL-
ES 79-44-7	CARBONIC CHLORIDE, DIMETHYL-
S 79-46-8	PROPANE, 2-NITRO-
80-10-4	SILANE, DICHLORODIPHENYL-
80-15-9	HYDROPEROXIDE, 1-METHYL-1-PHENYLETHYL
80-46-6	PHENOL, 4-((1,1-DIMETHYLPROPYL)-
80-48-8	BENZENESULFONIC ACID, 4-METHYL-, METHYL ESTER
80-58-8	BICYCLO(3.1.1)HEPT-2-ENE, 2,6,6-TRIMETHYL-
E 80-62-6	2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER
ES 81-07-2	1,2-BENZISOTHAZOL-3(2H)-ONE, 1,1-DIOXIDE
E 81-81-2	2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-
S 82-28-0	9,10-ANTHRACENEDIONE, 1-AMINO-2-METHYL-
E 82-68-8	BENZENE, PENTACHLORONITRO-
82-26-1	1H-INDENE-1,3(2H)-DIONE, 2-(2,2-DIMETHYL-1-ETHOXY-1-ETHYL)-
E 83-32-9	ACENAPHTHYLINE, 1,2-DIHYDRO-
83-79-4	[1]BENZOPYRANO(3,4-b)FURO(2,3-d)[1]BENZOPYRAN-6(GAM)-ONE, 1,2,12,12A-TETRAHYDRO-8,8-DIMETHOXY-2-(1-METHYLETHENYL)-, [2S-(2.ALPHA.,6A.ALPHA.,12A.ALPHA.)]-
E 84-64-2	1,2-BENZENEDICARBOXYLIC ACID, DIETHYL ESTER
84-72-0	1,2-BENZENEDICARBOXYLIC ACID, 2-ETHOXY-2-ETHOXY ETHYL ESTER
E 84-74-2	1,2-BENZENEDICARBOXYLIC ACID, DIETHYL ESTER

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V	YES	CAS NO. (A)	CAS PREFERRED CHEMICAL NAME (B)
	E	85-00-7	DIPYRIDO(1,2-A:2',1'-C)PYRAZINEDIUM, 6,7-DIHYDRO-, DISBROMIDE
	E	85-01-8	PHENANTHRENE
	E	85-44-9	1,3-ISOBENZOFURANDIONE
	E	85-68-7	1,2-BENZENEDICARBOXYLIC ACID, BUTYL PHENYLMETHYL ESTER
	E	85-71-2	1,3-BENZENEDICARBOXYLIC ACID, 2-ETHOXY-2-OXOETHYL METHYL ESTER
	E	86-30-6	BENZENAMINE, N-NITROSO-N-PHENYL-
	E	86-50-0	PHOSPHORDITHIOIC ACID, O,O-DIMETHYL S-[(4-OXO-1,2,3-BENZOTRIAZIN-3(4H)-YL)METHYL] ESTER
	E	86-73-7	SH-FLUORENE
		86-88-4	THIOUREA, 1-NAPHTHALENYL-
		87-59-2	BENZENAMINE, 2,3-DIMETHYL-
		87-62-7	BENZENAMINE, 2,6-DIMETHYL-
	E	87-68-3	1,3-BUTADIENE, 1,1,2,3,4,4-HEXACHLORO-
	E	87-86-5	PHENOL, PENTACHLORO-
		87-90-1	1,3,5-TRIAZINE-2,4,6-(1H,3H,5H)-TRIONE, 1,3,5-TRICHLORO-
	ES	88-06-2	PHENOL, 2,4,6-TRICHLORO-
		88-09-5	BUTANOIC ACID, 2-ETHYL-
		88-10-8	CARBAMIC CHLORIDE, DIETHYL-
		88-16-4	BENZENE, 1-CHLORO-2-(TRIFLUOROMETHYL)-
	E	88-72-2	BENZENE, 1-METHYL-2-NITRO-
		88-73-3	BENZENE, 1-CHLORO-2-NITRO-
	E	88-75-5	PHENOL, 2-NITRO-
		88-88-1	PHENOL, 2,4,6-TRINITRO-
		88-82-3	BENZENAMINE, 4-METHYL-2-NITRO-
		89-72-5	PHENOL, 2-((1-METHYLPROPYL)-
	S	90-04-0	BENZENAMINE, 2-METHOXY-
		90-12-0	NAPHTHALENE, 1-METHYL-
		90-41-5	[1,1'-BIPHENYL]-2-AMINE
	S	90-94-8	METHANONE, BIS(4-(DIMETHYLAMINO)PHENYL)-
		91-17-8	NAPHTHALENE, DECAHYDRO-
	E	91-20-3	NAPHTHALENE
	E	91-22-5	QUINOLINE
		91-48-6	ACETAMIDE, N-BUTYL-N-PHENYL-
	E	91-58-7	NAPHTHALENE, 3-CHLORO-
	ES	91-59-8	2-NAPHTHALENAMINE
		91-66-7	BENZENAMINE, N,N-DIETHYL-
	E	91-80-5	1,2-ETHANEDIAMINE, N,N-DIMETHYL-N'-2-PYRIDINYL-N''-(2-THIENYLMETHYL)-
	ES	91-84-1	[1,1'-BIPHENYL]-4,4'-DIAMINE, 3,3'-DICHLORO-
		91-89-6	ETHANOL, 2,2'-((2-METHYLPHENYL)IMINO)BIS-
		92-04-6	[1,1'-BIPHENYL]-4-OL, 3-CHLORO-
		92-15-9	BUTANAMIDE, N-(2-METHOXYPHENYL)-3-OXO-
		92-30-2	ETHANOL, 2-(ETHYLPHENYLAMINO)-
		92-32-4	1,1'-BIPHENYL
		92-32-5	MORPHOLINE, 4-PHENYL-
		92-39-1	BENZENEMETHANAMINE, N-ETHYL-N-PHENYL-
		92-46-0	1,1'-BIPHENYL, 4-BROMO-
	ES	92-47-1	[1,1'-BIPHENYL]-4-AMINE
		92-84-2	10H-PHENOTHIAZINE
	ES	92-87-5	[1,1'-BIPHENYL]-4,4'-DIAMINE
		92-93-3	1,1'-BIPHENYL, 4-NITRO-
	E	93-72-1	PROPANOIC ACID, 2-(2,4,6-TRICHLOROPHENYLOXY)-
	E	93-76-5	ACETIC ACID, (2,4,6-TRICHLOROPHENYLOXY)-
	E	93-79-8	ACETIC ACID, (2,4,6-TRICHLOROPHENYLOXY)-, BUTYL ESTER
		93-89-0	BENZOIC ACID, ETHYL ESTER
		93-90-3	ETHANOL, 2-(METHYLPHENYLAMINO)-
		93-96-9	BENZENE, 1,1'-((ETHYLETHYLIDENE)BIS-
		94-04-2	HEXANOIC ACID, 3-ETHYL-, ETHENYL ESTER
	E	94-11-1	ACETIC ACID, (2,4-DICHLOROPHENYLOXY)-, 1-METHYLETHYL ESTER
		94-36-0	PEROXIDE, DIBENZOYL
	ES	94-58-6	1,3-BENZODIOXOL, 5-PROPYL-
	ES	94-59-7	1,3-BENZODIOXOL, 5-(2-PROPENYL)-
		94-70-2	BENZENAMINE, 2-(ETHOXY-
	E	94-75-7	ACETIC ACID, (2,4-DICHLOROPHENYLOXY)-
	S	94-78-0	2,6-PYRIDINEDIAMINE, 3-(PHENYLazo)-
	E	94-79-1	ACETIC ACID, (2,4-DICHLOROPHENYLOXY)-, 1-METHYLPROPYL ESTER
	E	94-80-4	ACETIC ACID, (2,4-DICHLOROPHENYLOXY)-, BUTYL ESTER
	S	95-06-7	CARBANDITHIOIC ACID, DIETHYL-, 2-CHLORO-2-PROPENYL ESTER
		95-13-6	1H-INDENE

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95-46-5	BENZENE, 1-BROMO-2-METHYL-
95-47-6	BENZENE, 1,2-DIMETHYL-
95-48-7	PHENOL, 2-METHYL-
95-49-8	BENZENE, 1-CHLORO-2-METHYL-
95-50-1	BENZENE, 1,2-DICHLORO-
95-53-4	BENZENAMINE, 2-METHYL-
95-57-8	PHENOL, 2-CHLORO-
95-69-2	BENZENAMINE, 4-CHLORO-2-METHYL-
95-76-1	BENZENAMINE, 3,4-DICHLORO-
95-80-7	1,3-BENZENEDIAMINE, 4-METHYL-
95-83-0	1,2-BENZENEDIAMINE, 4-CHLORO-
95-95-4	PHENOL, 2,4,6-TRICHLORO-
96-09-3	OXIRANE, PHENYL-
96-10-6	ALUMINUM, CHLORODIETHYL-
96-12-8	PROPANE, 1,3-DIBROMO-3-CHLORO-
96-14-0	PENTANE, 3-METHYL-
96-17-3	BUTANAL, 2-METHYL-
96-18-4	PROPANE, 1,2,3-TRICHLORO-
96-20-8	1-BUTANOL, 2-AMINO-
96-22-0	3-PENTANONE
96-33-3	2-PROPENOIC ACID, METHYL ESTER
96-34-4	ACETIC ACID, CHLORO-, METHYL ESTER
96-37-7	CYCLOPENTANE, METHYL-
96-45-7	2-IMIDAZOLIDINETHIONE
96-47-9	FURAN, TETRAHYDRO-2-METHYL-
96-48-1	1,3-DIOXOLAN-2-ONE
96-68-5	PHENOL, 4,4'-THIOBIS[2-((1,1-DIMETHYLETHYL)-5-METHYL-
97-00-7	BENZENE, 1-CHLORO-2,4-DINITRO-
97-02-9	BENZENAMINE, 2,4-DINITRO-
97-36-9	BUTANAMIDE, N-(2,4-DIMETHYLPHENYL)-3-OXO-
97-56-3	BENZENAMINE, 2-METHYL-4-((2-METHYLPHENYL)AZO)-
97-62-1	PROPANOIC ACID, 2-METHYL-, ETHYL ESTER
97-63-2	2-PROPENOIC ACID, 2-METHYL-, ETHYL ESTER
97-64-3	PROPANOIC ACID, 2-HYDROXY-, ETHYL ESTER
97-77-8	THIOPEROXYDICARBONIC DIAMIDE ((H2N)C(S)2S2), TETRAETHYL-
97-88-1	2-PROPENOIC ACID, 2-METHYL-, BUTYL ESTER
97-93-8	ALUMINUM, TRIETHYL-
97-94-9	BORANE, TRIETHYL-
97-95-0	1-BUTANOL, 2-ETHYL-
97-96-1	BUTANAL, 2-ETHYL-
97-97-2	ETHANE, 2-CHLORO-1,1-DIMETHOXY-
97-98-4	2-FURANMETHANOL, TETRAHYDRO-
98-00-0	2-FURANMETHANOL
98-01-1	2-FURANCARBOXALDEHYDE
98-06-6	BENZENE, (1,1-DIMETHYLETHYL)-
98-07-7	BENZENE, (TRICHLOROMETHYL)-
98-08-8	BENZENE, (TRIFLUOROMETHYL)-
98-12-4	SILANE, TRICHLOROCYCLOHEXYL-
98-13-5	SILANE, TRICHLOROPHENYL-
98-27-1	PHENOL, 4-((1,1-DIMETHYLETHYL)-2-METHYL-
98-28-2	PHENOL, 2-CHLORO-4-((1,1-DIMETHYLETHYL)-
98-29-2	1,2-BENZENEDIOL, 4-((1,1-DIMETHYLETHYL)-
98-51-1	BENZENE, 1-((1,1-DIMETHYLETHYL)-4-METHYL-
98-62-8	BENZENE, (1-METHYLETHYL)-
98-84-0	BENZENEMETHANAMINE, .ALPHA.-METHYL-
98-86-2	ETHANONE, 1-PHENYL-
98-88-4	BENZOYL CHLORIDE
98-95-3	BENZENE, NITRO-
99-08-1	BENZENE, 1-METHYL-3-NITRO-
99-38-4	BENZENE, 1,3,5-TRINITRO-
99-66-8	BENZENAMINE, 2-METHYL-5-NITRO-
99-99-2	BENZENAMINE, 2-METHOXY-5-NITRO-
99-65-0	BENZENE, 1,3-DINITRO-
99-87-6	BENZENE, 1-METHYL-4-((1-METHYLETHYL)-
99-88-0	BENZENE, 1-METHYL-4-NITRO-
100-00-9	BENZENE, 1-CHLORO-4-NITRO-
100-01-6	BENZENAMINE, 4-NITRO-
100-02-7	PHENOL, 4-NITRO-

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CAS NO.	CAS PREFERRED CHEMICAL NAME (S)
100-20-9	1,4-BENZENEDICARBONYL DICHLORIDE
E 100-25-4	BENZENE, 1,4-DINITRO-
100-36-7	1,2-ETHANEDIAMINE, N,N-DIETHYL-
100-37-8	ETHANOL, 2-(DIETHYLAMINO)-
100-40-3	CYCLOHEXENE, 4-ETHENYL-
E 100-41-4	BENZENE, ETHYL-
E 100-42-5	BENZENE, ETHENYL-
E 100-44-7	BENZENE, (CHLOROMETHYL)-
E 100-47-0	BENZONITRILE
100-50-9	3-CYCLOHEXENE-1-CARBOXALDEHYDE
100-51-6	BENZENEMETHANOL
100-52-7	BENZALDEHYDE
100-53-8	BENZENEMETHANETHIOL
100-61-8	BENZENAMINE, N-METHYL-
100-63-0	HYDRAZINE, PHENYL-
100-73-2	2H-PYRAN-2-CARBOXALDEHYDE, 3,4-DIHYDRO-
100-74-3	MORPHOLINE, 4-ETHYL-
ES 100-75-4	PIPERIDINE, 1-NITROSO-
100-89-2	ALUMINUM, TRIS(2-METHYLPROPYL)-
ES 101-14-4	BENZENAMINE, 4,4'-METHYLENESIS(2-CHLORO-
E 101-55-3	BENZENE, 1-BROMO-4-PHENOXY-
S 101-61-1	BENZENAMINE, 4,4'-METHYLENESIS(N,N-DIMETHYL-
101-68-8	BENZENE, 1,1'-METHYLENESIS(4-ISOCYANATO-
101-77-9	BENZENAMINE, 4,4'-METHYLENESIS-
S 101-80-4	BENZENAMINE, 4,4'-OXYBIS-
101-83-7	CYCLOHEXANAMINE, N-CYCLOHEXYL-
101-84-8	BENZENE, 1,1'-OXYBIS-
101-86-2	1,4-BENZENEDIAMINE, N,N'-BIS(1-METHYLPROPYL)-
102-01-2	BUTANAMIDE, 3-OXO-N-PHENYL-
102-54-5	FERROCENE
102-66-7	BENZENAMINE, 2,8-DIMETHOXY-
102-67-0	ALUMINUM, TRIPROPYL-
102-68-2	1-PROPANAMINE, N,N-DIPROPYL-
102-71-6	ETHANOL, 2,2',2''-NITRILOTRIS-
102-78-4	ETHANOL, 2,2'-(BUTYLIMINO)BIS-
102-81-8	ETHANOL, 2-(DIBUTYLAMINO)-
102-82-9	1-BUTANAMINE, N,N-DIBUTYL-
102-85-2	PHOSPHOROUS ACID, TRIBUTYL ESTER
103-08-3	ACETIC ACID, 2-ETHYLHEXYL ESTER
103-11-7	3-PROPENOIC ACID, 2-ETHYLHEXYL ESTER
103-44-6	HEPTANE, 3-[(ETHENYLOXY)METHYL]-
103-65-1	BENZENE, PROPYL-
103-68-5	BENZENAMINE, N-ETHYL-
103-84-4	ACETAMIDE, N-PHENYL-
103-88-8	ACETAMIDE, N-(4-METHYLPHENYL)-
104-15-4	BENZENESULFONIC ACID, 4-METHYL-
104-51-8	BENZENE, BUTYL-
104-72-3	BENZENE, DECYL-
104-75-6	1-HEXANAMINE, 3-ETHYL-
104-76-7	1-HEXANOL, 3-ETHYL-
104-78-9	1,3-PROPANEDIAMINE, N,N-DIETHYL-
104-88-1	BENZALDEHYDE, 4-CHLORO-
104-89-2	PIPERIDINE, 3-ETHYL-2-METHYL-
104-90-5	PYRIDINE, 3-ETHYL-2-METHYL-
104-94-8	BENZENAMINE, 4-METHOXY-
105-08-5	BENZENE, 1,4-DIETHYL-
105-37-3	PROPANOIC ACID, ETHYL ESTER
105-38-4	PROPANOIC ACID, ETHENYL ESTER
105-39-9	ACETIC ACID, CHLORO-, ETHYL ESTER
105-45-3	BUTANOIC ACID, 3-OXO-, METHYL ESTER
E 105-46-4	ACETIC ACID, 1-METHYLPROPYL ESTER
105-54-4	BUTANOIC ACID, ETHYL ESTER
105-56-6	ACETIC ACID, CYANO-, ETHYL ESTER
105-57-7	ETHANE, 1,1-DIETHOXY-
105-58-8	CARBONIC ACID, DIETHYL ESTER
105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-
105-64-6	PEROXYDICARBONIC ACID, BIS(1-METHYLETHYL) ESTER
105-66-8	BUTANOIC ACID, PROPYL ESTER

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V	ES	CAS NO. (A)	CAS PREFERRED CHEMICAL NAME (B)
	E	105-67-8	PHENOL, 2,4-DIMETHYL-
		105-74-8	PEROXIDE, BIS(1-OXODODECYL)
		106-20-7	1-HEXANAMINE, 2-ETHYL-N-(2-ETHYLHEXYL)-
		106-32-1	OCTANOIC ACID, ETHYL ESTER
		106-35-4	3-HEPTANONE
		106-36-5	PROPANOIC ACID, PROPYL ESTER
		106-38-7	BENZENE, 1-BROMO-4-METHYL-
	E	106-42-3	BENZENE, 1,4-DIMETHYL-
	E	106-44-5	PHENOL, 4-METHYL-
	E	106-46-7	BENZENE, 1,4-DICHLORO-
		106-48-9	PHENOL, 4-CHLORO-
		106-49-0	BENZENAMINE, 4-METHYL-
		106-50-3	1,4-BENZENEDIAMINE
	E	106-51-4	2,5-CYCLOHEXADIENE-1,4-DIONE
		106-63-8	2-PROPENOIC ACID, 2-METHYLPROPYL ESTER
		106-68-3	3-OCTANONE
		106-71-8	2-PROPENOIC ACID, 2-CYANODETHYL ESTER
		106-87-6	7-OXABICYCLO[4.1.0]HEPTANE, 3-OXIRANYL-
		106-88-7	OXIRANE, ETHYL-
	ES	106-89-8	OXIRANE, (CHLOROMETHYL)-
		106-92-3	OXIRANE, [(2-PROPENYLOXY)METHYL]-
	ES	106-93-4	ETHANE, 1,2-DIBROMO-
		106-94-5	PROPANE, 1-BROMO-
		106-95-6	1-PROPENE, 3-BROMO-
		106-96-7	1-PROPENE, 3-BROMO-
		106-97-8	BUTANE
		106-98-9	1-BUTENE
		106-99-0	1,3-BUTADIENE
		107-01-7	2-BUTENE
	E	107-02-8	2-PROPENAL
	E	107-05-1	1-PROPENE, 3-CHLORO-
	ES	107-06-2	ETHANE, 1,2-DICHLORO-
		107-07-3	ETHANOL, 2-CHLORO-
	E	107-10-8	1-PROPANAMINE
		107-11-8	2-PROPEN-1-AMINE
		107-12-0	PROPANENITRILE
	ES	107-13-1	2-PROPENITRILE
	E	107-15-2	1,2-ETHANEDIAMINE
	E	107-16-6	2-PROPEN-1-OL
	E	107-18-7	2-PROPYN-1-OL
	E	107-20-0	ACETALDEHYDE, CHLORO-
		107-21-1	1,3-ETHANEDIOL
		107-25-5	ETHENE, METHOXY-
	ES	107-30-2	METHANE, CHLOROMETHOXY-
		107-31-3	FORMIC ACID, METHYL ESTER
		107-37-9	SILANE, TRICHLORO-3-PROPENYL-
		107-39-1	1-PENTENE, 2,4,4-TRIMETHYL-
		107-40-4	2-PENTENE, 2,4,4-TRIMETHYL-
		107-41-8	2,4-PENTANEDIOL, 2-METHYL-
		107-45-8	2-PENTANAMINE, 2,4,4-TRIMETHYL-
	E	107-49-3	DIPHOSPHORIC ACID, TETRAETHYL ESTER
		107-44-4	PHOSPHORIC ACID, BISUTYL ESTER
		107-71-1	ETHANEPEROXYDIC ACID, 1,1-DIMETHYLETHYL ESTER
		107-72-2	SILANE, TRICHLOROPENTYL-
		107-83-8	PENTANE, 2-METHYL-
		107-84-6	BUTANE, 1-CHLORO-3-METHYL-
		107-87-8	2-PENTANONE
		107-89-1	BUTANAL, 3-HYDROXY-
	E	107-92-6	BUTANOIC ACID
		107-98-2	2-PROPANOL, 1-METHOXY-
		108-01-0	ETHANOL, 2-(DIMETHYLAMINO)-
		108-03-2	PROPANE, 1-NITRO-
	E	108-06-4	ACETIC ACID ETHENYL ESTER
		108-06-7	PENTANE, 2,4-DIMETHYL-
		108-08-8	2-PENTANAMINE, 4-METHYL-
		108-10-1	3-PENTANONE, 4-METHYL-
		108-16-7	2-PROPANOL, 1-(DIMETHYLAMINO)-
		108-18-9	2-PROPANAMINE, N-(1-METHYLETHYL)-

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YES	CAS NO. (A)	CAS RECOMMENDED CHEMICAL NAME (B)
	108-20-3	PROPANE, 2,2'-OXYBIS-
	108-21-4	ACETIC ACID, 1-METHYLETHYL ESTER
	108-22-5	1-PROPEN-2-OL, ACETATE
E	108-24-7	ACETIC ACID, AMYRIDIDE
E	108-31-6	2,5-FURANDIONE
E	108-38-3	BENZENE, 1,3-DIMETHYL-
E	108-39-4	PHENOL, 3-METHYL-
E	108-46-3	1,3-BENZENEDIOL
	108-57-6	BENZENE, 1,3-DIETHENYL-
	108-62-3	1,3,5,7-TETROXOCANE, 2,4,6,8-TETRAMETHYL-
	108-83-8	4-HEPTANONE, 2,6-DIMETHYL-
	108-86-1	BENZENE, BROMO-
	108-87-2	CYCLOHEXANE, METHYL-
E	108-88-3	BENZENE, METHYL-
	108-89-4	PYRIDINE, 4-METHYL-
E	108-90-7	BENZENE, CHLORO-
	108-91-8	CYCLOHEXANAMINE
	108-93-0	CYCLOHEXANOL
	108-94-1	CYCLOHEXANONE
E	108-95-2	PHENOL
	108-96-5	BENZENETHIOL
	109-01-3	PIPERAZINE, 1-METHYL-
	109-02-4	MORPHOLINE, 4-METHYL-
	109-06-8	PYRIDINE, 2-METHYL-
E	109-08-0	PIRAZINE, METHYL-
	109-21-7	BUTANOIC ACID, BUTYL ESTER
	109-47-7	PHOSPHOROUS ACID, DIBUTYL ESTER
	109-52-4	PENTANOIC ACID
	109-53-8	PROPANE, 1-(ETHENYLOXY)-2-METHYL-
	109-55-7	1,3-PROPANEDIAMINE, N,N-DIMETHYL-
	109-59-1	ETHANOL, 2-(1-METHYLETHOXY)-
	109-60-4	ACETIC ACID, PROPYL ESTER
	109-63-7	BORON, TRIFLUORO[1,1'-OXYBIS(ETHANE)]-, (1-4)-
	109-65-9	BUTANE, 1-BROMO-
	109-66-0	PENTANE
	109-67-1	1-PENTENE
	109-68-3	BUTANE, 1-CHLORO-
E	109-73-8	1-BUTANAMINE
	109-74-0	BUTANENITRILE
	109-76-2	1,3-PROPANEDIAMINE
	109-78-4	PROPANENITRILE, 3-HYDROXY-
	109-78-5	1-BUTANETHIOL
	109-82-1	ETHANOL, 2-(METHYLAMINO)-
	109-86-4	ETHANOL, 2-METHOXY-
	109-87-5	METHANE, DIMETHOXY-
E	109-88-7	ETHANAMINE, N-ETHYL-
	109-92-3	ETHENE, ETHOXY-
	109-93-3	ETHENE, 1,1'-OXYBIS-
	109-94-4	FORMIC ACID, ETHYL ESTER
	109-95-5	NITROUS ACID, ETHYL ESTER
	109-97-7	1H-PYRROLE
	109-99-9	FURAN, TETRAHYDRO-
	110-00-9	FURAN
	110-02-1	THIOPHENE
	110-08-4	PEROXIDE, BIS(1,1-DIMETHYLETHYL)
	110-12-3	2-HEXANONE, 5-METHYL-
E	110-16-7	3-BUTENEDIOLIC ACID (2)-
E	110-17-8	2-BUTENEDIOLIC ACID (2)-
E	110-18-0	ACETIC ACID, 2-METHYLPROPYL ESTER
	110-22-5	PEROXIDE, DIACETYL
	110-43-0	2-HEPTANONE
	110-49-6	ETHANOL, 2-METHOXY-, ACETATE
	110-52-2	PENTANE, 1-BROMO-
	110-54-3	HEXANE
	110-56-5	BUTANE, 1,4-DICHLORO-
	110-58-7	1-PENTANAMINE
	110-62-3	PENTANAL
	110-66-7	1-PENTANETHIOL

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ES	CAS NO. (A)	CAS PREFERRED CHEMICAL NAME (B)
	110-67-8	PROPANENITRILE, 3-METHOXY-
	110-68-9	1-BUTANAMINE, N-METHYL-
	110-68-0	BUTANAL, OXIME
	110-71-4	ETHANE, 1,2-DIMETHOXY-
	110-74-7	FORMIC ACID, PROPYL ESTER
E	110-75-8	ETHENE, (2-CHLOROETHOXY)-
	110-80-5	ETHANOL, 2-ETHOXY-
E	110-82-7	CYCLOHEXANE
	110-83-8	CYCLOHEXENE
	110-85-0	PIPERAZINE
E	110-86-1	PYRIDINE
	110-87-2	2H-PYRAN, 3,4-DIHYDRO-
	110-88-3	1,3,5-TRIOXANE
	110-88-4	PIPERIDINE
	110-91-8	MORPHOLINE
	110-96-3	1-PROPANAMINE, 2-METHYL-N-[(2-METHYLPROPYL)-
	110-97-4	2-PROPANOL, 1,1'-IMINOBIS-
	111-15-9	ETHANOL, 2-ETHOXY-, ACETATE
	111-26-2	1-HEXANAMINE
	111-27-3	1-HEXANOL
	111-30-8	PENTANEDIAL
	111-34-2	BUTANE, 1-((ETHENYLOXY)-
	111-36-4	BUTANE, 1-ISOCYANATO-
	111-40-0	1,2-ETHANEDIAMINE, N-((2-AMINOETHYL)-
	111-41-1	ETHANOL, 2-((2-AMINOETHYL)AMINO)-
	111-42-2	ETHANOL, 2,2'-IMINOBIS-
	111-43-3	PROPANE, 1,1'-OXYBIS-
E	111-44-4	ETHANE, 1,1'-OXYBIS(2-CHLORO-
	111-46-6	ETHANOL, 2,2'-OXYBIS-
	111-48-8	ETHANOL, 2,2'-THIOBIS-
	111-50-2	HEXANEDIOYL DICHLORIDE
	111-53-7	1,2-ETHANEDIOL, DIACETATE
	111-64-8	OCTANOYL CHLORIDE
	111-65-8	OCTANE
	111-66-0	1-OCTENE
	111-68-2	1-HEPTANAMINE
	111-69-3	HEXANEDINITRILE
	111-76-2	ETHANOL, 3-BUTOXY-
	111-77-3	ETHANOL, 2-(2-METHOXYETHOXY)-
	111-78-4	1,8-CYCLOOCTADIENE
	111-84-2	NONANE
	111-86-4	1-OCTANAMINE
	111-87-5	1-OCTANOL
	111-88-6	1-OCTANETHIOL
E	111-91-1	ETHANE, 1,1'-[METHYLENBIS(OXY)]BIS(2-CHLORO-
	111-92-2	1-BUTANAMINE, N-BUTYL-
	112-04-9	SILANE, TRICHLOROCTADECYL-
	112-14-1	ACETIC ACID, OCTYL ESTER
	112-24-3	1,2-ETHANEDIAMINE, N,N'-BIS(2-AMINOETHYL)-
	112-26-5	ETHANE, 1,2-BIS(2-CHLOROETHOXY)-
	112-27-6	ETHANOL, 2,2'-[1,2-ETHANEDIOLBIS(OXY)]BIS-
	112-30-1	1-DECANOL
	112-33-0	1-DECEANETHIOL
	112-37-2	1,2-ETHANEDIAMINE, N-((2-AMINOETHYL)-N'-[2-((2-AMINOETHYL)AMINO)ETHYL]-
	112-38-3	HEXANE, 1,1'-OXYBIS-
	112-80-1	8-OCTADECENOIC ACID (2)-
	112-88-1	8,8,11,14,17-PENTAXAMERICOSANE
	114-26-1	PHENOL, 2-((1-METHYLETHOXY)-, METHYLCARBAMATE
ES	115-02-6	L-SERINE, DIAZACETATE (ESTER)
	115-07-1	1-PROPENE
	115-10-6	METHANE, OXYBIS-
	115-11-7	1-PROPENE, 2-METHYL-
	115-19-5	3-BUTYN-2-OL, 3-METHYL-
	115-21-9	SILANE, TRICHLOROETHYL-
E	115-23-7	6,6-METHANO-2,4,3-BENZODIOXATHIEPIN, 6,7,8,9,10,10-HEXACHLORO-1,3,8,8,6,9,8,8-METHA- HYDRO-, 3-OXIDE
E	115-32-2	KELTHANE
	115-76-4	1,3-PROPANEDIOL, 2,2-DIETHYL-

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	115-77-4	1,3-PROPANEDIOL, 2,2-BIS(HYDROXYMETHYL)-
	115-84-4	1,3-PROPANEDIOL, 2-BUTYL-2-ETHYL-
	115-86-6	PHOSPHORIC ACID, TRIPHENYL ESTER
	115-90-2	PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-[4-(METHYLSULFINYL)PHENYL] ESTER
	116-02-9	CYCLOHEXANOL, 3,3,5-TRIMETHYL-
	116-06-3	PROPANAL, 2-METHYL-2-(METHYLTHIO)-, O-[(METHYLAMINO)CARBONYL]OXIME
	116-14-3	ETHENE, TETRAFLUORO-
S	117-79-3	9,10-ANTHRACENEDIONE, 2-AMINO-
E	117-80-6	1,4-NAPHTHALENEDIONE, 3,3-DICHLORO-
ES	117-81-7	1,2-BENZENEDICARBOXYLIC ACID, BIS(2-ETHYLMETHYL) ESTER
E	117-84-0	1,2-BENZENEDICARBOXYLIC ACID, DIOCTYL ESTER
	118-52-5	2,4-IMIDAZOLIDINEDIONE, 1,3-DICHLORO-5,5-DIMETHYL-
ES	118-74-1	BENZENE, HEXACHLORO-
	118-86-7	BENZENE, 2-METHYL-1,3,5-TRINITRO-
	119-26-8	BENZOIC ACID, 2-HYDROXY-, METHYL ESTER
	119-42-6	PHENOL, 2-CYCLOHEXYL-
	119-64-2	NAPHTHALENE, 1,2,3,4-TETRAHYDRO-
ES	119-80-4	[1,1'-BIPHENYL]-4,4'-DIAMINE, 3,3'-DIMETHOXY-
ES	119-83-7	[1,1'-BIPHENYL]-4,4'-DIAMINE, 3,3'-DIMETHYL-
E	120-12-7	ANTHRACENE
ES	120-58-1	1,3-BENZODIOXOLE, 5-(1-PROPENYL)-
S	120-71-8	BENZENAMINE, 2-METHOXY-5-METHYL-
	120-80-9	1,2-BENZENEDIOL
E	120-82-1	BENZENE, 1,2,4-TRICHLORO-
E	120-82-2	PHENOL, 2,4-DICHLORO-
	120-82-3	CYCLOPENTANONE
	120-84-5	PYRROLIDINE, 1-METHYL-
E	121-14-2	BENZENE, 1-METHYL-2,4-DINITRO-
E	121-21-1	CYCLOPROPANECARBOXYLIC ACID, 2,2-DIMETHYL-3-(2-METHYL-1-PROPENYL)-, 2-METHYL-4-OXO-3-(2,4-PENTADIENYL)-2-CYCLOPENTEN-1-YL ESTER, [1R-[1.ALPHA.[5.(1).3.BETA.]]]-
	121-28-9	CYCLOPROPANECARBOXYLIC ACID, 3-(3-METHOXY-2-METHYL-3-OXO-1-PROPENYL)-2,2-DIMETHYL-4-OXO-3-(2,4-PENTADIENYL)-2-CYCLOPENTEN-1-YL ESTER, [R-[1.ALPHA.A.[5.(2).3.BETA.(6)]]]-
	121-43-7	BORIC ACID (H3BO3), TRIMETHYL ESTER
E	121-44-8	ETHANAMINE, N,N-DIETHYL-
	121-45-9	PHOSPHOROUS ACID, TRIMETHYL ESTER
	121-46-0	BICYCLO[2.2.1]HEPTA-2,5-DIENE
	121-68-7	BENZENAMINE, N,N-DIMETHYL-
	121-73-3	BENZENE, 1-CHLORO-3-NITRO-
E	121-75-5	BUTANEDIOLIC ACID, [(DIMETHOXYPHOSPHINOTHIOYL)THIO]-, DIETHYL ESTER
	121-82-4	1,3,5-TRIAZINE, HEXAHYDRO-1,3,5-TRINITRO-
	122-20-3	2-PROPANOL, 1,1,1'-NITRILOTRIS-
E	122-29-4	BENZENAMINE, N-PHENYL-
	122-81-0	ETHANE, 1,1',1''-(METHYLIDYMETRIS(OXY))TRIS-
	122-80-1	OXIRANE, (PHENOXYMETHYL)-
ES	122-86-7	HYDRAZINE, 1,2-BIPHENYL-
	122-82-7	BUTANAMIDE, N-(4-ETHOXYPHENYL)-3-OXO-
	122-98-5	ETHANOL, 2-(PHENYLAMINO)-
	123-00-2	4-MORPHOLINEPROPANAMINE
	123-04-6	HEPTANE, 3-(CHLOROMETHYL)-
	123-06-7	HEXANAL, 2-ETHYL-
	123-07-8	PHENOL, 4-ETHYL-
	123-15-9	PENTANAL, 2-METHYL-
	123-17-1	4-HEXANOL, 2,6,6-TRIMETHYL-
	123-18-2	4-HEXANONE, 2,6,6-TRIMETHYL-
	123-18-3	4-HEPTANONE
	123-30-6	BUTANOIC ACID, ETHENYL ESTER
	123-38-6	PROPANAL
	123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL-
	123-51-3	1-BUTANOL, 3-METHYL-
	123-54-6	2,4-PENTANEDIONE
E	123-62-6	PROPANIC ACID, ANHYDRIDE
	123-63-7	1,3,5-TRIOXANE, 2,4,6-TRIMETHYL-
	123-64-0	HEXANOIC ACID, ETHYL ESTER
	123-72-8	BUTANAL
	123-75-1	PYRROLIDINE
	123-81-9	ACETIC ACID, MERCAPTO-, 4,5-ETHANEDIYL ESTER

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	CAS NO. (A)	CAS PREFERRED CHEMICAL NAME (B)
[]	123-86-4	ACETIC ACID, BUTYL ESTER
[]	123-91-1	1,4-DIOXANE
[]	123-92-2	1-BUTANOL, 3-METHYL-, ACETATE
[]	124-04-8	HEXANEDIOIC ACID
[]	124-16-3	2-PROPANOL, 1-(2-BUTOXYETHOXY)-
[]	124-18-5	DECANE
[]	124-38-9	CARBON DIOXIDE
[]	124-40-3	METHANAMINE, N-METHYL-
[]	124-41-4	METHANOL, SODIUM SALT
[]	124-48-1	METHANE, DIBROMOCHLORO-
[]	124-68-9	1-PROPANOL, 2-AMINO-2-METHYL-
[]	126-33-0	THIOPHENE, TETRAHYDRO-, 1,1-DIOXIDE
[]	126-39-6	1,3-DIOXOLANE, 2-ETHYL-2-METHYL-
[]	126-72-7	1-PROPANOL, 2,3-DIBROMO-, PHOSPHATE (3:1)
[]	126-73-8	PHOSPHORIC ACID TRIBUTYL ESTER
[]	126-98-7	2-PROPENENITRILE, 2-METHYL-
[]	126-99-8	1,3-BUTADIENE, 2-CHLORO-
[]	127-00-4	2-PROPANOL, 1-CHLORO-
[]	127-18-4	ETHENE, TETRACHLORO-
[]	127-19-8	ACETAMIDE, N,N-DIMETHYL-
[]	127-82-2	BENZENESULFONIC ACID, 4-HYDROXY-, ZINC SALT (2:1)
[]	128-37-0	PHENOL, 2,6-BIS(1,1-DIMETHYLETHYL)-4-METHYL-
[]	128-44-8	4,2-BENZISOTHAZOL-3(2H)-ONE, 1,1-DIOXIDE, SODIUM SALT
[]	128-00-0	PYRENE
[]	128-19-7	9,10-ANTHRACENEDIONE, 2-METHYL-1-NITRO-
[]	131-11-3	1,2-BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER
[]	131-17-8	1,2-BENZENEDICARBOXYLIC ACID, DI-2-PROPENYL ESTER
[]	132-06-2	1H-ISOINDOLE-1,3(2H)-DIONE, 3A,4,7,7A-TETRAHYDRO-2-[(TRICHLOROMETHYL)THIO]-
[]	134-29-2	BENZENAMINE, 2-METHOXY-, HYDROCHLORIDE
[]	134-32-7	1-NAPHTHALENAMINE
[]	135-01-3	BENZENE, 1,2-DIETHYL-
[]	135-02-4	BENZALDEHYDE, 2-METHOXY-
[]	135-20-6	BENZENAMINE, N-HYDROXY-N-NITROSO-, AMMONIUM SALT
[]	135-88-6	2-NAPHTHALENAMINE, N-PHENYL-
[]	135-98-8	BENZENE, (1-METHYLPROPYL)-
[]	136-40-3	2,6-PYRIDINEDIAMINE, 3-(PHENYLazo)-, MONOHYDROCHLORIDE
[]	136-60-7	BENZOIC ACID, BUTYL ESTER
[]	136-78-7	ETHANOL, 2-(2,4-DICHLOROPHENOXY)-, HYDROGEN SULFATE, SODIUM SALT
[]	136-81-2	PHENOL, 2-PENTYL-
[]	137-06-3	2-PROPENOIC ACID, 3-CYANO-, METHYL ESTER
[]	137-26-8	THIOPEROXYDICARBONIC DIAMIDE (((H2N)C(S))2S2), TETRAMETHYL-
[]	137-32-6	1-BUTANOL, 2-METHYL-
[]	138-00-1	PHENOL, 2,4-DIPENTYL-
[]	138-22-7	PROPANOIC ACID, 2-HYDROXY-, BUTYL ESTER
[]	139-13-9	GLYCINE, N,N-BIS(CARBOXYMETHYL)-
[]	139-65-1	BENZENAMINE, 4,4'-THIOBIS-
[]	139-87-7	ETHANOL, 2,2'-(ETHYLIMINO)BIS-
[]	139-91-3	2-OXAZOLIDINONE, 8-(4-MORPHOLINYLETHYL)-3-[[[(5-NITRO-2-FURANYL)METHYLENE]AMINO]
[]	140-04-8	9-OCTADECENOIC ACID, 12-(ACETOXY)-, BUTYL ESTER, [R-(2)]-
[]	140-29-4	BENZENEACETONITRILE
[]	140-31-8	1-PIPERAZINEETHANAMINE
[]	140-57-8	SULFURIC ACID, 2-CHLOROETHYL 2-[4-(1,1-DIMETHYLETHYL)PHENOXY]-1-METHYLETHYL ESTER
[]	140-88-5	2-PROPENOIC ACID, ETHYL ESTER
[]	140-89-6	CARBONODITHIOIC ACID, 8-ETHYL ESTER, POTASSIUM SALT
[]	141-32-2	2-PROPENOIC ACID, BUTYL ESTER
[]	141-43-8	ETHANOL, 2-AMINO-
[]	141-57-1	SILANE, TRICHLOROPROPYL-
[]	141-59-3	2-PENTAMETHYL, 2,4,4-TRIMETHYL-
[]	141-66-2	PHOSPHORIC ACID, 3-(DIMETHYLAMINO)-1-METHYL-3-OXO-1-PROPENYL DIMETHYL ESTER, (E)
[]	141-78-6	ACETIC ACID ETHYL ESTER
[]	141-79-7	3-PENTEN-2-ONE, 4-METHYL-
[]	141-81-3	MORPHOLINE, 2,6-DIMETHYL-
[]	141-93-8	BENZENE, 1,2-DIETHYL-
[]	141-97-9	BUTANOIC ACID, 3-OXO-, ETHYL ESTER
[]	142-04-1	BENZENAMINE, HYDROCHLORIDE

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[]	E	142-28-9	PROPANE, 1,3-DICHLORO-
[]		142-29-0	CYCLOPENTENE
[]		142-62-1	HEXANOIC ACID
[]		142-64-3	PIPERAZINE, DIHYDROCHLORIDE
[]		142-68-7	2H-PYRAN, TETRAHYDRO-
[]	E	142-71-2	ACETIC ACID, COPPER(2-) SALT
[]		142-82-5	HEPTANE
[]		142-84-7	1-PROPANAMINE, N-PROPYL-
[]		142-96-1	BUTANE, 1,1'-OXYBIS-
[]		143-16-8	1-HEXANAMINE, N-HEXYL-
[]	E	143-33-9	SODIUM CYANIDE (Na(CN))
[]	ES	143-50-0	1,3,4-METHENO-2H-CYCLOSUTA[CD]PENTALEN-2-ONE, 1,1A,3,3A,4,5,5A,5B,6-DECACHLORO DCTAHYDRO-
[]		144-62-7	ETHANEDIOIC ACID
[]		148-01-6	BENZAMIDE, 2-METHYL-3,5-DINITRO-
[]	ES	148-82-3	L-PHENYLALANINE, 4-(BIS(2-CHLOROETHYL)AMINO)-
[]		149-31-5	1,3-PENTANEDIOL, 2-METHYL-
[]		150-76-5	PHENOL, 4-METHOXY-
[]	E	151-50-8	POTASSIUM CYANIDE (K(CN))
[]	E	151-56-4	AZIRIDINE
[]		154-23-4	2H-1-BENZOPYRAN-3,5,7-TRIOL, 2-(3,4-DIHYDROXYPHENYL)-3,4-DIHYDRO-, (2R-TRANS)-
[]	S	156-10-5	BENZENAMINE, 4-NITROSO-N-PHENYL-
[]		156-43-4	BENZENAMINE, 4-ETHOXY-
[]		156-58-2	ETHENE, 1,2-DICHLORO-, (Z)-
[]	E	156-60-5	ETHENE, 1,2-DICHLORO-, (E)-
[]		156-62-7	CYANAMIDE, CALCIUM SALT (1:1)
[]		156-87-6	1-PROPANOL, 3-AMINO-
[]	ES	189-55-9	BENZO(RST)PENTAPHENE
[]	ES	189-64-0	DIBENZO(B,DEF)CHRYSENE
[]	E	191-24-2	BENZO(GHI)PERYLENE
[]	E	192-68-4	NAPHTHO[1,2,3,4-DEF]CHRYSENE
[]	ES	193-39-6	INDENO[1,2,3-CD]PYRENE
[]	ES	194-58-2	7H-DIBENZO[C,G]CARBAZOLE
[]	ES	205-82-3	BENZO(J)FLUORANTHENE
[]	ES	205-89-2	BENZ(E)ACEPHENANTHYLENE
[]	E	206-44-0	FLUORANTHENE
[]	ES	207-08-9	BENZO(K)FLUORANTHENE
[]	E	208-96-8	ACENAPHTHYLENE
[]	E	218-01-8	CHRYSENE
[]	ES	224-42-0	DIBENZ(A,J)ACRIDINE
[]	ES	226-36-8	DIBENZ(A,H)ACRIDINE
[]		287-23-0	CYCLOBUTANE
[]		287-82-3	CYCLOPENTANE
[]		291-64-8	CYCLOHEPTANE
[]	E	298-00-0	PHOSPHOROTHIOIC ACID, O,O-DIMETHYL O-(4-NITROPHENYL) ESTER
[]	E	298-02-2	PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-[(ETHYLTHIO)METHYL] ESTER
[]	E	298-04-4	PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-[3-(ETHYLTHIO)ETHYL] ESTER
[]	S	299-75-2	1,2,3,4-BUTANETETROL, 1,4-DIMETHANESULFONATE, [S-(R*,R*)]-
[]		299-84-3	PHOSPHOROTHIOIC ACID, O,O-DIMETHYL O-(3,4,5-TRICHLOROPHENYL) ESTER
[]		299-86-8	PHOSPHORANIDIC ACID, METHYL-, 2-CHLORO-4-(1,1-DIMETHYLETHYL)PHENYL METHYL ESTER
[]	E	300-76-6	PHOSPHORIC ACID, 1,2-DIBROMO-2,2-DICHLOROETHYL DIMETHYL ESTER
[]	ES	301-04-2	ACETIC ACID, LEAD(2-) SALT
[]	ES	302-01-2	HYDRAZINE
[]	ES	302-70-8	ETHANAMINE, 2-CHLORO-N-(2-CHLOROETHYL)-N-METHYL-, N-OXIDE, HYDROCHLORIDE
[]	ES	303-24-4	2-BUTENEDIC ACID, 2-METHYL-, 7-[[[2,3-DIHYDROXY-2-(1-METHOXYETHYL)-3-METHYL-1-OXO- UTOKY]METHYL]-2,3,5,7A-TETRAHYDRO-N-PYRROLIZIN-1-YL ESTER, [1S-[1ALPHA.(Z) .7(2S*,3R*),7A.ALPHA.]]]-
[]	ES	306-03-3	BENZENEBUTANOIC ACID, 4-(BIS(2-CHLOROETHYL)AMINO)-
[]	E	308-00-2	1,4,5,8-DIMETHANOPHTHALENE, 1,2,3,4,10,10-HEXACHLORO-1,4,4A,5,5A,8A-HEXAHYDRO-, (1.ALPHA.,4.ALPHA.,4A.BETA.,5.ALPHA.,8.ALPHA.,8A.BETA.)-
[]		314-40-8	2,4-(1H,3H)-PYRINIDINEDIONE, 8-BROMO-6-METHYL-3-(1-METHYLPROPYL)-
[]	E	315-18-4	PHENOL, 4-(DIMETHYLAMINO)-3,5-DIMETHYL-, METHYLCARBAMATE (ESTER)
[]	S	315-22-0	20-NORCOTALANAN-11,18-DIONE, 14,18-DIHYDRO-12,13-DIHYDROXY-, (1S.ALPHA.,14.ALPH A.)-
[]	ES	318-84-6	CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1.ALPHA.,2.ALPHA.,3.BETA.,4.ALPHA.,5.BETA .,6.BETA.)-

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V	REF	GAS NO. (A)	GAS REFERRED CHEMICAL NAME (B)
[]	ES	318-85-7	CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1.ALPHA.,2.BETA.,3.ALPHA.,4.BETA.,5.ALPHA.,6.BETA.)-
[]	E	318-86-8	CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1.ALPHA.,2.ALPHA.,3.ALPHA.,4.BETA.,5.ALPH.,6.BETA.)-
[]	E	329-71-5	PHENOL, 2,5-DINITRO-
[]	E	330-84-1	UREA, N'-(3,4-DICHLOROPHENYL)-N,N-DIMETHYL-
[]	E	333-41-5	PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-(6-METHYL-2-(1-METHYLETHYL)-4-PYRIMIDINYL) ESTER
[]		334-88-3	METHANE, DIAZO-
[]		353-36-6	ETHANE, FLUORO-
[]	E	353-50-4	CARBONIC DIFLUORIDE
[]	S	366-70-1	BENZAMIDE, N-(1-METHYLETHYL)-4-[(2-METHYLHYDRAZINO)METHYL]-, MONOHYDROCHLORIDE
[]		372-09-8	ACETIC ACID, CYANO-
[]		409-21-2	SILICON CARBIDE (SIC)
[]		420-04-2	CYANAMIDE
[]		431-03-8	2,3-BUTANEDIONE
[]	S	434-07-1	ANDROSTAN-3-ONE, 17-HYDROXY-2-(HYDROXYMETHYLENE)-17-METHYL-, (5.ALPHA.,17.BETA.)
[]	S	443-48-1	1H-IMIDAZOLE-1-ETHANOL, 2-METHYL-5-NITRO-
[]	S	446-86-6	1H-PURINE, 6-[(1-METHYL-4-NITRO-1H-IMIDAZOL-5-YL)THIO]-
[]	E	460-18-5	ETHANEDINITRILE
[]		462-06-6	BENZENE, FLUORO-
[]		463-51-4	ETHENONE
[]		463-58-1	CARBON OXIDE SULFIDE (COS)
[]		463-82-1	PROPANE, 2,2-DIMETHYL-
[]		464-06-2	BUTANE, 2,2,3-TRIMETHYL-
[]		470-80-6	PHOSPHORIC ACID, 2-CHLORO-1-(2,4-DICHLOROPHENYL)ETHENYL DIETHYL ESTER
[]		478-45-8	BENZENAMINE, N-METHYL-N,2,4,6-TETRANITRO-
[]	ES	484-03-1	2-NAPHTHALENAMINE, N,N-BIS(2-CHLOROETHYL)-
[]		486-03-7	HEXANAL, 2-ETHYL-3-HYDROXY-
[]		503-17-3	2-BUTYNE
[]		504-20-1	2,5-HEPTADIEN-4-ONE, 7,8-DIMETHYL-
[]		504-29-0	2-PYRIDINAMINE
[]		504-60-8	1,3-PENTADIENE
[]	ES	505-60-2	ETHANE, 1,1'-THIOBIS(2-CHLORO-
[]	E	506-68-3	CYANOGEN BROMIDE
[]	E	506-77-4	CYANOGEN CHLORIDE
[]	E	506-87-6	CARBONIC ACID, DIAMMONIUM SALT
[]	E	506-96-7	ACETYL BROMIDE
[]		507-20-0	PROPANE, 2-CHLORO-2-METHYL-
[]		507-70-0	BICYCLO[2.2.1]HEPTAN-2-OL, 1,7,7-TRIMETHYL-, ENDO-
[]	E	508-14-8	METHANE, TETRANITRO-
[]	E	510-15-6	BENZENEACETIC ACID, 4-CHLORO-, ALPHA-(4-CHLOROPHENYL)-, ALPHA-HYDROXY-, ETHYL ESTER
[]		513-35-8	3-BUTENE, 2-METHYL-
[]		513-36-0	PROPANE, 1-CHLORO-2-METHYL-
[]		513-42-8	2-PROPEN-1-OL, 1-METHYL-
[]		513-63-1	2-BUTANETHIOL
[]	E	528-29-0	BENZENE, 1,3-DINITRO-
[]	S	531-76-0	DL-PHENYLALANINE, 4-[(BIS(2-CHLOROETHYL)AMINO)-
[]	S	531-83-8	ACETAMIDE, N-(4-(5-NITRO-2-FURANYL)-2-THIAZOLYL)-
[]		532-27-4	ETHANONE, 2-CHLORO-1-PHENYL-
[]		534-22-5	FURAN, 2-METHYL-
[]	E	534-52-1	PHENOL, 2-METHYL-4,6-DINITRO-
[]		538-68-1	BENZENE, PENTYL-
[]		538-83-2	BENZENE, (2-METHYLPROPYL)-
[]		540-84-8	PROPANE, 1-CHLORO-
[]		540-88-0	ETHENE, 1,2-DICHLORO-
[]		540-87-0	ETHANE, METHOXY-
[]	ES	540-73-8	HYDRAZINE, 1,2-DIMETHYL-
[]		540-84-1	PENTANE, 2,2,4-TRIMETHYL-
[]	E	540-88-8	ACETIC ACID, 1,1-DIMETHYLETHYL ESTER
[]	E	541-08-3	URANIUM, BIS(ACETATO-6)DIOXO-
[]		541-41-3	CARBONCHLORIDIC ACID, ETHYL ESTER
[]	E	541-73-1	BENZENE, 1,3-DICHLORO-
[]		541-82-8	3-HEPTANONE, 8-METHYL-
[]		542-18-7	CYCLOHEXANE, CHLORO-
[]		542-88-2	FORMIC ACID, 2-METHYLPROPYL ESTER

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542-58-5	ETHANOL, 2-CHLORO-, ACETATE
542-62-1	CALCIUM CYANIDE (Ca(CN) ₂)
542-75-6	1-PROPENE, 1,3-DICHLORO-
542-88-1	METHANE, OXYBIS(CHLORO-
542-92-7	1,3-CYCLOPENTADIENE
543-58-8	PENTANE, 1-CHLORO-
543-80-8	ACETIC ACID, CADMIUM SALT
544-10-5	HEXANE, 1-CHLORO-
544-18-3	FORMIC ACID, COBALT(2+) SALT
552-30-7	5-ISOBENZOFURAN CARBOXYLIC ACID, 1,3-DIHYDRO-1,3-DIOXO-
554-12-1	PROPANOIC ACID, METHYL ESTER
554-84-7	PHENOL, 3-NITRO-
555-84-0	2-IMIDAZOLIDINONE, 1-[[[5-NITRO-2-FURANYL)METHYLENE]AMINO]-
556-52-5	OXIRANEMETHANOL
557-08-1	OCTADECANOIC ACID, ZINC SALT
557-17-5	PROPANE, 1-METHOXY-
557-20-0	ZINC, DIETHYL-
557-21-1	ZINC CYANIDE (Zn(CN) ₂)
557-34-6	ACETIC ACID, ZINC SALT
557-40-4	1-PROPENE, 3,3'-OXYBIS-
557-41-5	FORMIC ACID, ZINC SALT
557-88-2	1-PROPENE, 2-CHLORO-
558-13-4	METHANE, TETRABROMO-
560-21-4	PENTANE, 2,3,3-TRIMETHYL-
563-12-2	PHOSPHORODITHIOIC ACID, S,S'-METHYLENE O,O',O',O'-TETRAETHYL ESTER
563-43-8	ALUMINUM, DICHLOROETHYL-
563-45-1	1-BUTENE, 3-METHYL-
563-46-2	1-BUTENE, 2-METHYL-
563-47-3	1-PROPENE, 3-CHLORO-2-METHYL-
563-78-0	1-BUTENE, 2,3-DIMETHYL-
563-79-1	2-BUTENE, 2,3-DIMETHYL-
563-80-4	3-BUTANONE, 3-METHYL-
564-02-3	PENTANE, 2,2,3-TRIMETHYL-
565-59-3	PENTANE, 2,3-DIMETHYL-
565-76-4	1-PENTENE, 2,3,4-TRIMETHYL-
573-56-8	PHENOL, 2,6-DINITRO-
583-60-8	CYCLOHEXANONE, 2-METHYL-
584-02-1	3-PENTANOL
584-84-9	BENZENE, 2,4-BISOCYANATO-1-METHYL-
584-84-1	HEXANE, 2,3-DIMETHYL-
589-34-4	HEXANE, 3-METHYL-
589-38-8	3-HEXANONE
589-43-6	HEXANE, 2,4-DIMETHYL-
589-90-2	CYCLOHEXANE, 1,4-DIMETHYL-
590-01-2	PROPANOIC ACID, BUTYL ESTER
590-18-1	2-BUTENE, (Z)-
590-21-6	1-PROPENE, 1-CHLORO-
590-86-3	BUTANAL, 3-METHYL-
590-88-5	1,3-BUTANEDIAMINE
590-86-5	METHANOL, (METHYL-GRN-ALDXY)-
591-21-9	CYCLOHEXANE, 1,3-DIMETHYL-
591-47-8	CYCLOHEXENE, 4-METHYL-
591-76-4	HEXANE, 3-METHYL-
591-78-6	3-HEXANONE
591-87-7	ACETIC ACID, 3-PROPYNYL ESTER
591-87-8	3-BUTENE, 1-CHLORO-
592-01-8	CALCIUM CYANIDE (Ca(CN) ₂)
592-04-1	MERCURY CYANIDE (Hg(CN) ₂)
592-41-8	1-HEXENE
592-45-0	1,4-HEXADIENE
592-62-1	METHANOL, (METHYL-GRN-ALDXY)-, ACETATE (ESTER)
592-76-7	1-HEPTENE
592-84-7	FORMIC ACID, BUTYL ESTER
592-88-8	THIOCYANIC ACID, MERCURY(2+) SALT
592-87-0	THIOCYANIC ACID, LEAD(2+) SALT
593-60-3	ETHENE, BROMO-
594-27-4	STANNANE, TETRAMETHYL-
594-36-8	BUTANE, 2-CHLORO-2-METHYL-

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ES	CAS NO. (A)	CAS PREFERRED CHEMICAL NAME (B)
	584-42-3	METHANESULFONYL CHLORIDE, TRICHLORO-
	584-46-9	1-BUTENE, 2,2,3-TRIMETHYL-
	584-71-8	PROPANE, 2-CHLORO-2-NITRO-
	584-72-9	ETHANE, 1,1-DICHLORO-1-NITRO-
	585-44-8	PROPANE, 1,1-DICHLORO-1-NITRO-
	585-80-4	STANNANE, TETRAPHENYL-
	588-75-4	2-BUTANOL, 3-METHYL-
	588-92-5	ETHANE, 1-CHLORO-1-NITRO-
	588-96-8	2-PENTENE, 3,4,4-TRIMETHYL-
	600-25-9	PROPANE, 1-CHLORO-1-NITRO-
S	602-87-8	ACENAPHTHYLENE, 1,2-DIHYDRO-8-NITRO-
	603-34-9	BENZENAMINE, N,N-DIPHENYL-
E	604-20-2	BENZENE, 2-METHYL-1,3-DINITRO-
S	604-73-1	CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-
E	608-18-8	PHENOL, 3,4,5-TRICHLORO-
	608-26-7	PENTANE, 3-ETHYL-2-METHYL-
E	610-39-8	BENZENE, 4-METHYL-1,2-DINITRO-
	613-28-6	BENZENAMINE, N,N-DIBUTYL-
S	613-35-4	ACETAMIDE, N,N'-[(1,1'-BIPHENYL)-4,4'-DIYLBIS-
	614-45-8	BENZENECARBOPEROXOIC ACID, 1,1-DIMETHYLETHYL ESTER
ES	615-53-2	CARBAMIC ACID, METHYLNITROSO-, ETHYL ESTER
	616-21-7	BUTANE, 1,2-DICHLORO-
	616-28-8	2-PROPANOL, 1,3-DIAMINO-
	616-38-6	CARBONIC ACID, DIMETHYL ESTER
	616-45-5	2-PYRROLIDINONE
	617-81-6	PROPANOIC ACID, 2-HYDROXY-, 1-METHYLETHYL ESTER
	617-89-0	2-PURANMETHANAMINE
ES	621-64-7	1-PROPANAMINE, N-NITROSO-N-PROPYL-
	621-77-2	1-PENTANAMINE, N,N-DIPENTYL-
	622-08-2	ETHANOL, 2-(PHENYLMETHOXY)-
	622-40-2	4-MORPHOLINEETHANOL
	623-42-7	BUTANOIC ACID, METHYL ESTER
	624-28-3	CYCLOHEXANE, 1,4-DIMETHYL-, CIS-
	624-64-6	2-BUTENE, (E)-
E	624-83-8	METHANE, ISOCYANATO-
E	625-16-1	2-BUTANOL, 2-METHYL-, ACETATE
	625-27-4	2-PENTENE, 2-METHYL-
	625-30-8	2-PENTANAMINE
	625-59-8	FORMIC ACID, 1-METHYLETHYL ESTER
	625-88-1	NITRIC ACID, ETHYL ESTER
	625-88-9	FURAN, 2,5-DIMETHYL-
	626-17-8	1,3-BENZENEDICARBONITRILE
	626-23-3	2-BUTANAMINE, N-(1-METHYLPROPYL)-
	626-38-0	3-PENTANOL, ACETATE
	627-12-4	NITRIC ACID, PROPYL ESTER
	627-18-0	1-PENTYNE
	627-20-3	2-PENTENE, (Z)-
	627-82-2	ETHANE, 1,1'-SELENOBIS-
	628-32-0	PROPANE, 1-ETHOXY-
	628-37-8	PEROXIDE, DIETHYL
E	628-63-7	ACETIC ACID, PENTYL ESTER
	628-78-2	PENTANE, 1,5-DICHLORO-
	628-81-8	BUTANE, 1-ETHOXY-
	628-84-6	1,3-ETHANEDITHIOL, DINITRATE
	629-14-1	ETHANE, 1,2-DIETHOXY-
E	630-08-0	CARBON MONOXIDE
E	631-61-8	ACETIC ACID, AMMONIUM SALT
ES	636-21-8	BENZENAMINE, 2-METHYL-, HYDROCHLORIDE
	638-17-8	4-1,3,5-DITHIAZINE, DIHYDRO-2,4,6-TRIMETHYL-, (2.ALPHA.,4.ALPHA.,6.ALPHA.)-
	638-21-1	PHOSPHINE, PHENYL-
	638-48-3	FORMIC ACID, PENTYL ESTER
E	640-18-7	ACETAMIDE, 2-FLUORO-
	643-88-3	1,1'-BIPHENYL, 2-METHYL-
	648-62-8	2-MEXENAL, 2-ETHYL-
	648-04-8	2-PENTENE, (E)-
	648-08-0	1,3-DIOXOLANE
S	671-18-8	BENZAMIDE, N-(1-METHYLETHYL)-4-[(2-METHYLNITRAZINO)METHYL]-
	674-82-8	2-OXETANONE, 4-METHYLENE-

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	5 60-31-9	PHOSPHORIC TRIAMIDE, HEXAMETHYL-
	481-84-8	SILICIC ACID (HASIO4), TETRAMETHYL ESTER
	684-16-2	2-PROPANONE, 1,1,1,3,3,3-HEXAFLUORO-
ES	684-93-5	UREA, N-METHYL-N-NITROSO-
	688-74-4	BORIC ACID (H3BO3), TRIBUTYL ESTER
	689-97-4	1-BUTEN-3-YNE
	691-37-2	1-PENTENE, 4-METHYL-
	702-03-4	PROPANENITRILE, 3-(CYCLOHEXYLAMINO)-
S	712-68-5	1,3,4-THIAZOL-2-AMINE, 5-(5-NITRO-2-FURANYL)-
ES	759-73-9	UREA, N-ETHYL-N-NITROSO-
	760-21-4	PENTANE, 3-METHYLENE-
	763-29-1	1-PENTENE, 2-METHYL-
	764-35-2	2-METHYNE
S	765-34-4	OXIRANECARBOXYALDEHYDE
	768-52-5	BENZENAMINE, N-(1-METHYLETHYL)-
	772-84-3	BENZENEMETHANAMINE, N,N-DIETHYL-
	777-37-7	BENZENE, 1-CHLORO-4-NITRO-2-(TRIFLUOROMETHYL)-
S	784-83-4	METHANOL, {[6-[2-(5-NITRO-2-FURANYL)ETHENYL]-1,2,4-TRIAZIN-3-YL]IMINO}BIS-
	814-78-8	3-BUTEN-2-ONE, 3-METHYL-
E	815-82-7	BUTANEDIOIC ACID, 2,3-DIHYDROXY- [R-(R*,R*)]-, COPPER(2+) SALT (1:1)
	818-61-1	2-PROPENOIC ACID, 2-HYDROXYETHYL ESTER
	821-08-8	1,5-HEXADEX-3-YNE
	827-52-1	BENZENE, CYCLOHEXYL-
S	838-88-0	BENZENAMINE, 4,4'-METHYLENEBIS[2-METHYL-
	869-28-4	2-PROPENE-1,1-DIOL, DIACETATE
	871-27-2	ALUMINUM, DIETHYLHYDRO-
	872-10-4	PENTANE, 1,1'-THIOBIS-
	872-50-4	2-PYRROLIDINONE, 1-METHYL-
ES	824-18-3	1-BUTANAMINE, N-BUTYL-N-NITROSO-
	826-56-7	1,3-PENTADIENE, 4-METHYL-
	826-87-8	2-BUTENE, 1,3-DICHLORO-
	826-85-8	PROPANE, 2-(ETHENYLOXY)-
	827-07-1	PROPANEPEROXIDIC ACID, 2,2-DIMETHYL-, 1,1-DIMETHYLETHYL ESTER
	827-80-0	ETHYNE, ETHOXY-
	828-46-0	NITRIC ACID, BUTYL ESTER
	828-56-2	1-PROPENE, 1-ETHOXY-
	828-86-1	3-HEXEN-1-OL, (2)-
	830-22-3	OXIRANE, ETHENYL-
ES	830-88-2	PYRROLIDINE, 1-NITROSO-
E	833-78-5	PHENOL, 2,3,6-TRICHLORO-
E	833-78-8	PHENOL, 2,3,5-TRICHLORO-
	844-22-8	PHOSPHONODITHIOIC ACID, ETHYL-, O-ETHYL S-PHENYL ESTER
	850-37-8	PHOSPHONODITHIOIC ACID, S-[(5-METHOXY-2-OXO-1,3,4-THIAZOL-3(2H)-YL)METHYL] O, O-DIMETHYL ESTER
E	858-98-8	6,8-METHANO-2,4,3-BENZODIATHIEPIN, 6,7,8,9,10,10-HEXACHLORO-1,5,8A,6,9,8A-HEXA- HYDRO-, 3-OXIDE, (3.ALPHA.,8A.BETA.,6.ALPHA.,8.ALPHA.,8A.BETA.,6.BETA.,A.ALPHA.)-
	888-61-1	2-PROPENOIC ACID, 2-HYDROXYPROPYL ESTER
	1002-16-0	NITRIC ACID, BUTYL ESTER
E	1024-87-3	2,8-METHANO-2H-INDENO[1,2-B]OXIRENE, 2,3,4,5,6,7,7-HEPTACHLORO-1A,1B,5,8A,6,6A-H EXAMTHIO-, (1A.ALPHA.,1B.BETA.,2.ALPHA.,5.ALPHA.,8A.BETA.,6.BETA.,A.ALPHA.)
E	1031-07-8	6,8-METHANO-2,4,3-BENZODIATHIEPIN, 6,7,8,9,10,10-HEXACHLORO-1,5,8A,6,9,8A-HEXA- HYDRO-, 3,3-DIOXIDE
E	1046-30-4	ACETIC ACID, CHROMIUM(3+) SALT
E	1046-32-7	CARBONIC ACID, MONOAMMONIUM SALT
	1047-20-5	PENTANE, 3,3-DIETHYL-
	1048-87-7	PENTANE, 3-ETHYL-2,4-DIMETHYL-
E	1072-38-1	OCTADECANOIC ACID, LEAD(2+) SALT
E	1111-78-0	CARBAMIC ACID, MONOAMMONIUM SALT
ES	1116-84-7	ETHANOL, 2,2'-(NITROSOIMINO)BIS-
	1116-70-7	ALUMINUM, TRIBUTYL-
	1118-88-7	1,3-PENTADIENE, 2-METHYL-
	1119-48-9	ACETANIDE, N-BUTYL-
	1120-48-8	1-OCTANAMINE, N-BUTYL-
ES	1120-71-4	1,2-OXATHIOLANE, 2,2-DIOXIDE
	1122-60-7	CYCLOHEXANE, NITRO-
	1126-78-8	BENZENAMINE, N-BUTYL-
E	1185-87-8	1,2,3-PROPANETRICARBOXYLIC ACID, 2-HYDROXY-, AMMONIUM IRON(3+) SALT

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		1186-93-4	PENTANE, 2,2,3,4-TETRAMETHYL-
		1189-85-1	CHROMIC ACID (H ₂ CrO ₄), BIS(1,1-DIMETHYLETHYL) ESTER
		1191-15-7	ALUMINUM, HYDROBIS(2-METHYLPROPYL)-
	E	1194-65-6	BENZONITRILE, 2,6-DICHLORO-
		1195-42-2	CYCLOHEXANAMINE, N-(1-METHYLETHYL)-
	S	1271-28-9	NICKELOCENE
	E	1300-71-6	PHENOL, DIMETHYL-
		1300-73-8	BENZENAMINE, AD, AR-DIMETHYL-
	S	1302-92-9	BERYL (AL ₂ BE ₃ (SiO ₃) ₆)
	TS	1303-28-2	ARSENIC OXIDE (As ₂ O ₃)
	E	1303-33-9	ARSENIC SULFIDE (As ₂ S ₃)
		1303-86-2	BORON OXIDE (B ₂ O ₃)
		1303-96-4	BORAX (B ₄ O ₇ ·10H ₂ O)
	E	1304-29-6	BARIUM PEROXIDE (Ba(O ₂))
	ES	1304-56-9	BERYLLIUM OXIDE (BeO)
		1304-82-1	BISMUTH TELLURIDE (Bi ₂ Te ₃)
		1305-62-0	CALCIUM HYDROXIDE (Ca(OH) ₂)
		1305-78-8	CALCIUM OXIDE (CaO)
	ES	1306-19-0	CADMIUM OXIDE (CdO)
	ES	1306-23-6	CADMIUM SULFIDE (CdS)
		1309-37-1	IRON OXIDE (Fe ₂ O ₃)
		1309-48-4	MAGNESIUM OXIDE (MgO)
	E	1309-64-4	ANTIMONY OXIDE (Sb ₂ O ₃)
	E	1310-58-3	POTASSIUM HYDROXIDE (K(OH))
	E	1310-73-2	SODIUM HYDROXIDE (Na(OH))
		1312-73-8	POTASSIUM SULFIDE (K ₂ S)
		1313-60-6	SODIUM PEROXIDE (Na ₂ O ₂)
	ES	1313-89-1	NICKEL OXIDE (NiO)
	ES	1314-06-3	NICKEL OXIDE (Ni ₂ O ₃)
	E	1314-13-2	ZINC OXIDE (ZnO)
		1314-18-7	STRONTIUM PEROXIDE (Sr(O ₂))
	S	1314-20-1	THORIUM OXIDE (ThO ₂)
	E	1314-62-1	VANADIUM OXIDE (V ₂ O ₅)
	E	1314-80-3	PHOSPHORUS SULFIDE (P ₂ S ₅)
	E	1314-84-7	ZINC PHOSPHIDE (Zn ₃ P ₂)
		1314-85-8	PHOSPHORUS SULFIDE (P ₄ S ₃)
	E	1314-87-0	LEAD SULFIDE (PbS)
	E	1315-04-4	ANTIMONY SULFIDE (Sb ₂ S ₃)
		1317-65-3	LIMESTONE
		1317-85-8	TRIPOLI
	E	1318-72-8	ACETIC ACID, (2,4,6-TRICHLOROPHENYLOXY)-, COMPO. WITH 1-AMINO-2-PROPANOL (1:1)
		1318-73-8	BENZENE, ETHENYL-, MONOMETHYL DERIV.
	E	1318-77-3	PHENOL, METHYL-
		1320-01-0	BENZENE, METHYLPENTYL-
	E	1320-18-9	ACETIC ACID, (2,4-DICHLOROPHENYLOXY)-, 2-BUTOXYMETHYLETHYL ESTER
		1320-21-4	BENZENE, DIMETHYLPENTYLOXY-
		1320-27-0	NAPHTHALENE, PENTYL-
		1320-37-3	ETHANE, DICHLOROTETRAFLUORO-
	E	1321-12-6	BENZENE, METHYLNITRO-
		1321-16-0	CYCLOHEXANECARBOXALDEHYDE
		1321-60-4	CYCLOHEXANOL, TRIMETHYL-
		1321-64-8	NAPHTHALENE, PENTACHLORO-
		1321-68-9	NAPHTHALENE, TRICHLORO-
		1321-74-0	BENZENE, DIETHENYL-
	ES	1327-63-3	ARSENIC OXIDE (As ₂ O ₃)
	E	1330-30-7	BENZENE, DIMETHYL-
		1330-43-4	BORON SODIUM OXIDE (B ₄ Na ₂ O ₇)
		1331-43-7	CYCLOHEXANE, DIETHYL-
	E	1332-07-6	BORIC ACID, ZINC SALT
	ES	1332-21-4	ASBESTOS
		1332-68-7	KAOLIN
		1333-13-7	PHENOL, (1,1-DIMETHYLETHYL)-3-METHYL-
		1333-74-0	HYDROGEN
	S	1333-82-0	CHROMIUM OXIDE (CrO ₃)
	E	1333-83-1	SODIUM FLUORIDE (Na(F ₂))
		1333-86-4	CARBON BLACK
	ES	1335-32-6	LEAD, BIS(ACETATO-9)TETRAMETHOXYTRI-
		1335-87-1	NAPHTHALENE, HEXACHLORO-

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		1335-88-2	NAPHTHALENE, TETRACHLORO-
	E	1336-21-8	AMMONIUM HYDROXIDE ((NH4)(OH))
	ES	1336-36-3	1,1'-BIPHENYL, CHLORO DERIVS.
		1338-23-4	2-BUTANONE, PEROXIDE
	E	1338-24-5	NAPHTHENIC ACIDS
		1341-24-8	ETHANONE, 1-PHENYL-, MONOCHLORO DERIV.
	E	1341-49-7	AMMONIUM FLUORIDE ((NH4)(HF2))
		1343-28-1	ALUMINUM OXIDE (AL2O3)
		1344-95-2	SILICIC ACID, CALCIUM SALT
	ES	1402-68-2	AFATOXINS
		1420-04-8	BENZAMIDE, 5-CHLORO-N-(2-CHLORO-4-NITROPHENYL)-2-HYDROXY-, COMPO. WITH 2-AMINOET HANOL (1:1)
	ES	1464-53-5	2,2'-BIOXIRANE
		1467-78-4	CYANAMIDE, DIMETHYL-
		1477-55-0	1,3-BENZENEDIMETHANAMINE
	E	1563-66-2	7-BENZOFURANOL, 2,3-DIHYDRO-2,2-DIMETHYL-, METHYLCARBAMATE
		1608-19-4	SILANE, CHLOROETHYL-
	ES	1615-80-1	HYDRAZINE, 1,2-DIETHYL-
		1640-88-7	CYCLOPENTANE, ETHYL-
		1653-19-6	1,3-BUTADIENE, 2,3-DICHLORO-
		1663-35-0	ETHENE, (2-METHOXYETHOXY)-
		1678-91-7	CYCLOHEXANE, ETHYL-
	S	1684-08-3	BENZENEMETHANAMINIUM, N-[4-[[4-(DIMETHYLAMINO)PHENYL][4-(ETHYL[(3-SULFOPHENYL)ME THYL]AMINO)PHENYL]METHYLENE]-2,5-CYCLOHEXADIEN-1-YLIDENE]-N-ETHYL--SULFO- HYDROXIDE, INNER SALT, SODIUM SALT
		1686-20-4	MORPHOLINE, 4-ACETYL-
	ES	1746-01-6	DIBENZO(S,E)[1,4]DIOXIN, 2,3,7,8-TETRACHLORO-
	E	1762-85-4	THIOCYANIC ACID, AMMONIUM SALT
		1788-58-8	SILANE, DICHLOROETHYL-
		1808-19-4	PHOSPHONIC ACID, DIISUTYL ESTER
	S	1836-75-5	BENZENE, 2,4-DICHLORO-1-(4-NITROPHENOXY)-
	E	1863-63-4	BENZOIC ACID, AMMONIUM SALT
		1810-42-8	4,4'-BIPYRIDINIUM, 1,1'-DIMETHYL-, DICHLORIDE
		1912-24-9	1,3,5-TRIAZINE-2,4-DIAMINE, 6-CHLORO-N-ETHYL-N'-(1-METHYLETHYL)-
	E	1918-00-9	BENZOIC ACID, 3,6-DICHLORO-2-METHOXY-
		1918-02-1	2-PYRIDINECARBOXYLIC ACID, 4-AMINO-2,5,6-TRICHLORO-
	E	1928-38-7	ACETIC ACID, (3,4-DICHLOROPHENOXY)-, METHYL ESTER
	E	1928-61-6	ACETIC ACID, (3,4-DICHLOROPHENOXY)-, PROPYL ESTER
	E	1929-73-3	ACETIC ACID, (3,4-DICHLOROPHENOXY)-, 2-BUTOXYETHYL ESTER
		1929-82-4	PYRIDINE, 2-CHLORO-4-(TRICHLOROMETHYL)-
	S	1937-37-7	2,7-NAPHTHALENEDISULFONIC ACID, 4-AMINO-3-[[4'-[[2,4-DIAMINOPHENYL]AZO]](1,1'-BIP HENYL)-4-YL]AZO]-5-HYDROXY-6-(PHENYLAZO)-, DISODIUM SALT
		2016-87-1	1-DECANAMINE
	E	2032-68-7	PHENOL, 3,6-DIMETHYL-4-(METHYLTHIO)-, METHYLCARBAMATE
		2036-15-8	ALUMINUM, HYDRODIPROPYL-
		2038-03-1	4-MORPHOLINETHANAMINE
		2038-87-4	BENZENE, 1-CHLORO-2-ETHENYL-
		2048-82-5	BENZENAMINE, 4-((1,1-DIMETHYLPROPYL)-
		2050-92-3	1-PENTANAMINE, N-PENTYL-
		2074-50-2	4,4'-BIPYRIDINIUM, 1,1'-DIMETHYL-, BIS(METHYL SULFATE)
	E	2074-87-5	CYANOSIN
		2084-18-6	2-BUTANETHIOL, 3-METHYL-
		2100-42-7	BENZENE, 2-CHLORO-1,4-DIMETHOXY-
		2104-44-5	PHOSPHONOTHIOIC ACID, PHENYL-, 8-ETHYL 8-(4-NITROPHENYL) ESTER
		2108-64-0	2-PROPANOL, 1-(DIBUTYLAMINO)-
		2196-96-8	2-PROPENOIC ACID, DECYL ESTER
		2187-42-8	SILICIC ACID (HS1307), HEXAETHYL ESTER
		2160-83-2	ETHANOL, 2,2'-(((1,1-DIMETHYLETHYL)IMINO)BIS-
		2178-58-1	DISULFIDE, 2-PHENYL PROPYL
		2207-04-7	CYCLOHEXANE, 1,4-DIMETHYL-, TRANS-
		2216-32-3	OCTANE, 3-METHYL-
		2216-34-4	OCTANE, 4-METHYL-
		2234-13-1	NAPHTHALENE, OCTACHLORO-
		2238-07-5	OXIRANE, 2,2'-((BISBIS(METHYLENE))BIS-
		2244-21-8	1,3,5-TRIAZINE-2,4,6-(1H,3H,5H)-TRIONE, 1,3-DICHLORO-, POTASSIUM SALT

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	CAS NO. (A)	CAS PREFERRED CHEMICAL NAME (B)
[]	E 2303-16-4	CARBAMOTHIOLIC ACID, BIS(1-METHYLETHYL)-, S-(2,3-DICHLORO-2-PROPENYL) ESTER
[]	E 2312-75-8	SULFURIC ACID, 2-(1,1,1-DIMETHYLETHYL)PHENOL, CYCLO-HEXYL 2-PROPYNYL ESTER
[]	S 2385-85-5	1,3,4-METHENO-1H-CYCLOBUTA[CO]PENTALENE, 1,1A,2,2,3,3A,4,5,5A,5B,6-OODECACHLOR OCTAHYDRO-
[]	2425-06-1	1H-ISOINDOLE-1,3(2H)-DIONE, 3A,4,7,7A-TETRAHYDRO-2-((1,1,2,2-TETRACHLOROETHYL)TH IO)-
[]	2426-08-6	OXIRANE, (BUTOXYMETHYL)-
[]	2426-54-2	2-PROPENOIC ACID, 2-(DIETHYLAMINO)ETHYL ESTER
[]	2449-49-2	BENZENEMETHANAMINE, N,N'-ALPHA-TRIMETHYL-
[]	2454-37-7	BENZENEMETHANOL, 3-AMINO-ALPHA-METHYL-
[]	ES 2465-27-2	BENZENAMINE, 4,4'-CARBONIMIDIOYL BIS[N,N-DIMETHYL-, MONOHYDROCHLORIDE
[]	2499-59-4	2-PROPENOIC ACID, OCTYL ESTER
[]	E 2545-59-7	ACETIC ACID, (2,4,5-TRICHLOROPHENOXY)-, 2-BUTOXYETHYL ESTER
[]	2551-62-4	SULFUR FLUORIDE (SF6), (OC-6-11)-
[]	S 2602-46-2	2,7-NAPHTHALENEDISULFONIC ACID, 3,3'-[[1,1'-BIPHENYL]-4,4'-DIYLBIS(AZO)]BIS(5-AM INO-4-HYDROXY-, TETRASODIUM SALT
[]	S 2646-17-5	2-NAPHTHALENOL, 1-[(2-METHYLPHENYL)AZO]-
[]	2698-41-1	PROPANEDINITRILE, [(2-CHLOROPHENYL)METHYLENE]-
[]	2699-79-8	SULFURYL FLUORIDE
[]	E 2764-72-8	DIPYRIDO[1,2-A:2',1'-C]PYRAZINEDIUM, 6,7-DIHYDRO-
[]	2782-57-2	1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE, 1,3-DICHLORO-
[]	2806-85-1	PROPANAL, 3-ETHOXY-
[]	2842-38-8	ETHANOL, 2-(CYCLOHEXYLAMINO)-
[]	2867-47-2	2-PROPENOIC ACID, 2-METHYL-, 2-(DIMETHYLAMINO)ETHYL ESTER
[]	2893-78-9	1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE, 1,3-DICHLORO-, SODIUM SALT
[]	E 2921-88-2	PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-(3,5,6-TRICHLORO-2-PYRIDINYL) ESTER
[]	2935-44-6	2,6-HEXANEDIOL
[]	2937-50-0	CARBONOCHLORIDIC ACID, 2-PROPENYL ESTER
[]	E 2944-67-4	ETHANEDIOIC ACID, AMMONIUM IRON(3+) SALT (3:3:1)
[]	E 2971-38-2	ACETIC ACID, (2,4-DICHLOROPHENOXY)-, 4-CHLORO-2-BUTENYL ESTER
[]	2971-90-6	4-PYRIDINOL, 3,5-DICHLORO-2,6-DIMETHYL-
[]	E 3012-63-8	1,2,3-PROPANETRICARBOXYLIC ACID, 3-HYDROXY-, DIAMMONIUM SALT
[]	S 3068-88-0	2-OXETANONE, 4-METHYL-
[]	3074-75-7	HEXANE, 4-ETHYL-2-METHYL-
[]	3074-77-9	HEXANE, 3-ETHYL-4-METHYL-
[]	3081-14-8	1,4-BENZENEDIAMINE, N,N'-BIS(1,4-DIMETHYLPENTYL)-
[]	E 3164-29-2	BUTANEDIOIC ACID, 2,3-DIHYDROXY- [R-(R',R')]-, DIAMMONIUM SALT
[]	3174-74-1	3H-PYRAZINE, 3,6-DIHYDRO-
[]	3221-61-2	OCTANE, 2-METHYL-
[]	E 3251-23-8	NITRIC ACID, COPPER(2+) SALT
[]	3312-60-5	1,3-PROPANEDIAMINE, N-CYCLOHEXYL-
[]	3333-82-6	BUTANEDINITRILE, TETRAMETHYL-
[]	ES 3333-67-3	CARBONIC ACID, NICKEL(2+) SALT (1:1)
[]	3383-96-8	PHOSPHOROTHIOIC ACID, O,O'-((THIO-4,1-PHENYLENE) O,O',O',O'-TETRAMETHYL ESTER
[]	3452-97-8	1-HEXANOL, 3,5,5-TRIMETHYL-
[]	E 3486-35-9	CARBONIC ACID, ZINC SALT (1:1)
[]	3522-94-9	HEXANE, 2,2,5-TRIMETHYL-
[]	S 3564-09-8	2,7-NAPHTHALENEDISULFONIC ACID, 3-HYDROXY-4-[(2,4,5-TRIMETHYLPHENYL)AZO]-, DISODIUM SALT
[]	S 3570-75-0	HYDRAZINECARBOXYALDEHYDE, 2-[4-(5-NITRO-2-FURANYL)-2-THIAZOLYL]-
[]	S 3688-53-7	2-FURAMACETAMIDE, ALPHA-[[[5-NITRO-2-FURANYL]METHYLENE]-
[]	3688-24-1	THIOBIPHOSPHORIC ACID [(HO)2P(S)]2O, TETRAETHYL ESTER
[]	S 3697-24-3	CHRYSENE, 8-METHYL-
[]	3724-69-0	3-BUTENOIC ACID
[]	S 3761-83-3	2,7-NAPHTHALENEDISULFONIC ACID, 4-[(2,4-DIMETHYLPHENYL)AZO]-3-HYDROXY-, DISODIUM SALT
[]	S 3771-18-5	PROPANOIC ACID, 2-METHYL-2-[4-(1,2,3,4-TETRAHYDRO-1-NAPHTHALENYL)PHENOXY]-
[]	3775-90-4	2-PROPENOIC ACID, 2-METHYL-, 3-[(1,1-DIMETHYLETHYL)AMINO]ETHYL ESTER
[]	3811-04-9	CHLORIC ACID, POTASSIUM SALT
[]	E 3813-14-7	ACETIC ACID, (2,4,5-TRICHLOROPHENOXY)-, COMPO. WITH 2,2',2''-NITRILOTRIS(ETHANOL) (1:1)
[]	3817-15-5	4-PROPENE, 3-(ETHYLOXY)-
[]	3953-10-4	2-PROPENOIC ACID, 3-ETHYLBUTYL ESTER
[]	4016-14-2	OXIRANE, [(1-METHYLETHOXY)METHYL]-
[]	4032-86-4	HEPTANE, 3,3-DIMETHYL-
[]	4088-71-8	CYCLOHEXANE, 5-ISOCYANATO-1-(ISOCYANATOMETHYL)-1,3,3-TRIMETHYL-

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V	ES	CAS NO. (A)	CAS PREPARED CHEMICAL NAME (P)
		4104-14-7	PHOSPHORAMIDOTHIOIC ACID, (1-IMINOETHYL)-, O,O-BIS(4-CHLOROPHENYL) ESTER
	E	4170-30-3	3-BUTENAL
		4324-38-3	PHOPANOLIC ACID, 3-ETHOXY-
	S	4342-03-4	1H-IMIDAZOLE-4-CARBOXAMIDE, 5-(3,3-DIMETHYL-1-TRIAZENYL)-
		4421-95-8	SILICIC ACID (HMSI3O10), OCTAMETHYL ESTER
		4438-24-1	ETHANOL, 2-(2-METHYLPROPOXY)-
		4461-41-0	2-BUTENE, 2-CHLORO-
		4461-48-7	2-PENTENE, 4-METHYL-
		4521-94-2	SILICIC ACID (HMSI3O10), OCTAETHYL ESTER
	ES	4549-40-0	ETHENAMINE, N-METHYL-N-NITROSO-
		4685-14-7	4,4'-BIPYRIDINIUM, 1,1'-DIMETHYL-
		4784-77-4	2-BUTENE, 1-BROMO-
		4806-61-5	CYCLOBUTANE, ETHYL-
		5124-30-1	CYCLOHEXANE, 1,1'-METHYLENEBIS[4-ISOCYANATO-
		5308-52-4	3-HEXENOIC ACID, 2-ETHYL-
		5332-73-0	1-PROPANAMINE, 3-METHOXY-
		5350-03-8	DODECANOIC ACID, PENTYL ESTER
		5408-74-2	PYRIDINE, 2-ETHENYL-8-ETHYL-
		5418-55-6	BORIC ACID (H3BO3), TRIS(1-METHYLETHYL) ESTER
		5432-61-1	CYCLOHEXANAMINE, N-(2-ETHYLHEXYL)-
		5459-93-8	CYCLOHEXANAMINE, N-ETHYL-
		5884-60-0	SILANE, TRICHLOROMEXADECYL-
	E	5972-73-8	ETHANEDIOIC ACID, MONOAMMONIUM SALT, MONOHYDRATE
	E	6009-70-7	ETHANEDIOIC ACID, DIAMMONIUM SALT, MONOHYDRATE
		6032-28-7	2-PENTANOL
		6117-91-5	2-BUTEN-1-OL
		6153-56-6	ETHANEDIOIC ACID, DIHYDRATE
	ES	6358-53-8	2-NAPHTHALENOL, 1-[(2,3-DIMETHOXYPHENYL)AZO]-
	E	6368-86-6	ACETIC ACID, (2,4,6-TRICHLOROPHENOXY)-, COMPO. WITH N,N-DIMETHYLMETHANAMINE (1:1)
	E	6368-87-7	ACETIC ACID, (2,4,6-TRICHLOROPHENOXY)-, COMPO. WITH N-METHYLMETHANAMINE (1:1)
		6423-43-4	1,2-PROPANEDIOL, DINITRATE
		6484-52-2	NITRIC ACID AMMONIUM SALT
		6607-45-0	BENZENE, (1,3-DICHLOROETHENYL)-
		6823-22-4	PHOSPHORIC ACID, DIMETHYL 1-METHYL-3-(METHYLAMINO)-3-OXO-1-PROPENYL ESTER, (2)-
	E	7005-72-3	BENZENE, 1-CHLORO-4-PHENOXY-
		7154-78-2	PENTANE, 2,2,3,3-TETRAMETHYL-
	E	7421-93-4	1,2,4-METHENOCYCLOPENTA[CD]PENTALENE-5-CARBOXALDEHYDE, 2,2A,3,3,4,7-HEXACHLORO-5-CANHYDRO-, (1.ALPHA.,3.BETA.,2A.BETA.,4.BETA.,4A.BETA.,5.BETA.,6A.BETA.,6B.BE TA.,7R)-
	E	7428-48-0	OCTADECANOIC ACID, LEAD SALT
	E	7429-80-8	ALUMINUM
	E	7439-92-1	LEAD
		7439-93-2	LITHIUM
		7439-95-4	MAGNESIUM
		7439-96-8	MANGANESE
	E	7439-97-6	MERCURY
		7439-98-7	MOLYBDENUM
		7440-01-9	NEON
	ES	7440-02-0	NICKEL
		7440-06-4	PLATINUM
		7440-08-7	POTASSIUM
		7440-16-6	RHODIUM
		7440-21-3	SILICON
	E	7440-22-4	SILVER
	E	7440-23-8	SODIUM
		7440-25-7	TANTALUM
	E	7440-28-0	THALLIUM
		7440-31-8	TIN
		7440-33-7	TUNGSTEN
	E	7440-38-0	ANTIMONY
		7440-37-1	ARGON
	ES	7440-38-2	ARSENIC
	E	7440-38-3	BARIUM
	ES	7440-41-7	BERYLLIUM
	ES	7440-43-8	CADMIUM
	ES	7440-47-3	CHROMIUM
		7440-48-4	COBALT

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ES	CAS NO. (A)	CAS PREFERRED CHEMICAL NAME (B)
X	7440-50-8	COPPER
	7440-58-6	MAFNIUM
	7440-58-7	HELIUM
	7440-61-1	URANIUM
	7440-62-2	VANADIUM
	7440-65-5	YTRIUM
	7440-66-6	ZINC
	7440-67-7	ZIRCONIUM
	7440-70-2	CALCIUM
	7440-74-6	INDIUM
	7446-08-4	SELENIUM OXIDE (SEO2)
	7446-09-5	SULFUR DIOXIDE
	7446-14-2	SULFURIC ACID, LEAD(2+) SALT (1:1)
	7446-18-6	SULFURIC ACID, DITHALLIUM(1+) SALT
	7446-27-7	PHOSPHORIC ACID, LEAD(2+) SALT (2:3)
	7446-34-6	SELENIUM SULFIDE (SES)
	7446-70-0	ALUMINUM CHLORIDE (ALCL3)
	7447-39-4	COPPER CHLORIDE (CUCL2)
	7521-80-4	SILANE, BUTYLTRICHLORO-
	7550-45-0	TITANIUM CHLORIDE (TICL4) (T-4)-
	7553-56-2	IODINE
	7558-79-4	PHOSPHORIC ACID, DISODIUM SALT
	7568-93-8	BENZENEMETHANOL, ALPHA-(AMINOMETHYL)-
	7572-29-4	ETHYNE, DICHLORO-
	7580-67-8	LITHIUM HYDRIDE (LIH)
	7581-87-7	BUTANE, 2,3-DICHLORO-
	7601-84-8	PHOSPHORIC ACID, TRISODIUM SALT
	7601-89-0	PERCHLORIC ACID, SODIUM SALT
	7601-90-3	PERCHLORIC ACID
	7616-84-6	PERCHLORYL FLUORIDE
	7631-86-8	SILICA
	7631-88-2	ARSENIC ACID (H3ASO4), SODIUM SALT
	7631-90-5	SULFURIC ACID, MONOSODIUM SALT
	7631-98-4	NITRIC ACID SODIUM SALT
	7632-00-0	NITROUS ACID, SODIUM SALT
	7632-81-1	VANADIUM CHLORIDE (VCL4) (T-4)-
	7637-07-2	BORANE, TRIFLUORO-
	7646-25-2	ARSENIC ACID (H3ASO4), LEAD SALT
	7646-68-7	SODIUM HYDRIDE (NAH)
	7646-78-8	STANNANE, TETRACHLORO-
	7646-85-7	ZINC CHLORIDE (ZNCL2)
	7647-01-0	HYDROCHLORIC ACID
	7647-18-9	ANTIMONY CHLORIDE (SBCLS)
	7664-38-2	PHOSPHORIC ACID
	7664-38-3	HYDROFLUORIC ACID
	7664-41-7	AMMONIA
	7664-83-8	SULFURIC ACID
	7681-49-4	SODIUM FLUORIDE (IMF)
	7681-52-8	HYPOCHLOROUS ACID, SODIUM SALT
	7681-57-4	DISULFURIC ACID, DISODIUM SALT
	7687-37-2	NITRIC ACID
	7698-48-8	ZINC BROMIDE (ZNBRS)
	7704-34-8	SULFUR
	7705-06-0	IRON CHLORIDE (FECL3)
	7718-84-8	NICKEL CHLORIDE (NICKL2)
	7718-08-7	THIONYL CHLORIDE
	7718-12-2	PHOSPHOROUS TRICHLORIDE
	7720-78-7	SULFURIC ACID, IRON(2+) SALT (1:1)
	7722-84-7	PERMANGANIC ACID (HMNO4), POTASSIUM SALT
	7722-84-1	HYDROGEN PEROXIDE (H2O2)
	7722-88-8	DIPHOSPHORIC ACID, TETRASODIUM SALT
	7723-14-0	PHOSPHORUS
	7726-95-6	BROMINE
	7727-21-1	PEROXYDISULFURIC ACID ((HO)2(SO2)2O2), DIPOTASSIUM SALT
	7727-37-8	NITROGEN
	7733-02-0	SULFURIC ACID, ZINC SALT (1:1)
	7757-74-8	DISULFURIC ACID, DISODIUM SALT
	7757-79-1	NITRIC ACID POTASSIUM SALT

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7758-01-2	BROMIC ACID, POTASSIUM SALT
7758-19-2	CHLOROUS ACID, SODIUM SALT
E 7758-29-4	TRIPHOSPHORIC ACID, PENTASODIUM SALT
E 7758-94-3	IRON CHLORIDE (FeCl ₂)
E 7758-95-4	LEAD CHLORIDE (PbCl ₂)
ES 7758-97-6	CHROMIC ACID (H ₂ CrO ₄), LEAD(2+) SALT (1:1)
E 7758-98-7	SULFURIC ACID COPPER(2+) SALT (1:1)
E 7761-88-8	NITRIC ACID SILVER(1+) SALT
E 7773-06-0	SULFAMIC ACID, MONOAMMONIUM SALT
7775-09-9	CHLORIC ACID, SODIUM SALT
E 7775-11-3	CHROMIC ACID (H ₂ CrO ₄), DISODIUM SALT
7775-14-6	DITHIONOUS ACID, DISODIUM SALT
E 7778-44-1	ARSENIC ACID (H ₃ AsO ₄), CALCIUM SALT (2:3)
E 7778-50-8	CHROMIC ACID (H ₂ CrO ₇), DIPOTASSIUM SALT
E 7778-54-3	HYPOCHLOROUS ACID, CALCIUM SALT
7778-74-7	PERCHLORIC ACID, POTASSIUM SALT
E 7778-86-4	DITHIONOUS ACID, ZINC SALT (1:1)
E 7778-88-6	NITRIC ACID, ZINC SALT
7782-39-0	DEUTERIUM
E 7782-41-4	FLUORINE
7782-42-8	GRAPHITE
7782-44-7	OXYGEN
E 7782-49-2	SELENIUM
E 7782-50-5	CHLORINE
7782-65-2	GERMANE
E 7782-86-7	NITRIC ACID, MERCURY(1+) SALT, MONOHYDRATE
E 7783-06-4	HYDROGEN SULFIDE (H ₂ S)
7783-07-5	HYDROGEN SELENIDE (H ₂ Se)
E 7783-18-8	THIOSULFURIC ACID (H ₂ S ₂ O ₃), DIAMMONIUM SALT
7783-20-2	SULFURIC ACID DIAMMONIUM SALT
E 7783-25-9	SULFURIC ACID, MERCURY(2+) SALT (1:1)
7783-41-7	OXYGEN FLUORIDE (OF ₂)
E 7783-46-2	LEAD FLUORIDE (PbF ₂)
E 7783-49-5	ZINC FLUORIDE (ZnF ₂)
E 7783-50-8	IRON FLUORIDE (FeF ₃)
7783-54-2	NITROGEN FLUORIDE (NF ₃)
E 7783-56-4	STIBINE, TRIFLUORO-
7783-60-0	SULFUR FLUORIDE (SF ₄), (T-4)-
E 7783-70-2	ANTIMONY FLUORIDE (SbF ₃)
7783-78-1	SELENIUM FLUORIDE (SeF ₆), (DC-6-11)-
7783-80-4	TELLURIUM FLUORIDE (TeF ₆), (DC-6-11)-
E 7784-34-1	ARSENIOUS TRICHLORIDE
E 7784-40-8	ARSENIC ACID (H ₃ AsO ₄), LEAD(2+) SALT (1:1)
ES 7784-41-0	ARSENIC ACID (H ₃ AsO ₄), MONOPOTASSIUM SALT
7784-42-1	ARSINE
E 7786-84-4	METAPHOSPHORIC ACID (HMP ₃ O ₈), TRISODIUM SALT
E 7786-34-7	3-BUTENOIC ACID, 3-((DIMETHOXYPHOSPHONYL)OXY)-, METHYL ESTER
E 7786-81-4	SULFURIC ACID, NICKEL(2+) SALT (1:1)
ES 7787-47-5	BERYLLIUM CHLORIDE (BeCl ₂)
ES 7787-49-7	BERYLLIUM FLUORIDE (BeF ₂)
E 7787-55-5	NITRIC ACID, BERYLLIUM SALT, TRIMYDRATE
7787-71-5	BROMINE FLUORIDE (BrF ₃)
E 7788-88-8	CHROMIC ACID (H ₂ CrO ₄), DIAMMONIUM SALT
E 7789-00-6	CHROMIC ACID (H ₂ CrO ₄), DIPOTASSIUM SALT
ES 7789-06-2	CHROMIC ACID (H ₂ CrO ₄), STRONTIUM SALT (1:1)
E 7789-08-6	CHROMIC ACID (H ₂ CrO ₇), DIAMMONIUM SALT
7789-30-2	BROMINE FLUORIDE (BrF ₃)
E 7789-42-6	CADMIUM BROMIDE (CdBr ₂)
E 7789-43-7	COBALT BROMIDE (CoBr ₂)
E 7789-61-8	STIBINE, TRIBROMO-
7790-91-2	CHLORINE FLUORIDE (ClF ₃)
E 7790-84-6	CHLOROSULFURIC ACID
7790-88-9	PERCHLORIC ACID, AMMONIUM SALT
7791-21-1	CHLORINE OXIDE (Cl ₂ O)
7791-25-5	SULFURYL CHLORIDE
7803-48-8	HYDROXYLAMINE
E 7803-81-2	PHOSPHINE
7803-83-3	STIBINE

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V	ES	CAS NO (A)	CAS PREFERRED CHEMICAL NAME (B)
		7803-62-5	SILANE
		8001-22-7	SOYBEAN OIL
		8001-26-1	LINSEED OIL
		8001-29-4	COTTONSEED OIL
		8001-30-7	CORN OIL
	ES	8001-35-2	TOXAPENE
	ES	8001-58-9	CRESOTE
		8001-69-2	COO-LIVER OIL
		8001-86-3	OILS, SOLEND
		8002-03-7	PEANUT OIL
		8002-05-9	PETROLEUM
		8002-74-2	PARAFFIN WAXES AND HYDROCARBON WAXES
	E	8003-19-8	1-PROPENE, 1,3-DICHLORO-, MIXT. WITH 1,2-DICHLOROPROPANE
		8003-34-7	PYRETHRINS AND PYRETHROIDS
		8006-14-2	NATURAL GAS
		8006-20-0	FUEL GASES, PRODUCER GAS
		8006-54-0	LANOLIN
		8007-40-7	OILS, MUSTARD
	ES	8007-48-2	TAR, COAL
		8008-20-6	KEROSENE (PETROLEUM)
		8008-51-3	OILS, CAMPHOR
		8016-28-2	OILS, LARD
	S	8020-83-5	HYDROCARBON OILS
		8021-82-9	FUEL GASES, WATER GAS
		8022-00-2	PHOSPHOROTHIOIC ACID, O-[2-(ETHYLTHIO)ETHYL] O,O-DIMETHYL ESTER, MIXT. WITH S-[2-(ETHYLTHIO)ETHYL] O,O-DIMETHYL PHOSPHOROTHIOATE
		8030-30-6	NAPHTHA
		8032-32-4	LIGROINE
		8052-41-3	STODDARD SOLVENT
		8052-42-4	ASPHALT
		8055-48-3	PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-[2-(ETHYLTHIO)ETHYL] ESTER, MIXT. WITH O,O-DIETHYL S-[2-(ETHYLTHIO)ETHYL] PHOSPHOROTHIOATE
	S	9000-07-1	CARRAGEENAN
		9002-81-7	POLY(OXYMETHYLENE)
		9002-84-0	ETHENE, TETRAFLUORO-, HOMOPOLYMER
		9002-91-9	ACETALDEHYDE, HOMOPOLYMER
		9004-34-6	CELLULOSE
	ES	9004-66-4	IRON DEXTRAN
		9004-70-0	CELLULOSE, NITRATE
		9005-25-8	STARCH
		9005-80-7	TURPENTINE
		9015-98-9	POLY(OXYMETHYLENE), -ALPHA-, -HYDRO-, -OMEGA-, -HYDROXY-
	E	10022-31-8	NITRIC ACID, BARIUM SALT
	E	10022-70-9	HYPOCHLOROUS ACID, SODIUM SALT, PENTAHYDRATE
		10025-87-9	SULFUR CHLORIDE (S ₂ CL ₂)
		10025-78-2	SILANE, TRICHLORO-
	E	10025-87-3	PHOSPHORYL CHLORIDE
	E	10025-91-9	STIBINE, TRICHLORO-
	E	10026-11-6	ZIRCONIUM CHLORIDE (ZrCl ₄), (T-4)-
		10026-13-8	PHOSPHORANE, PENTACHLORO-
	E	10028-15-6	OZONE
	E	10028-22-6	SULFURIC ACID, IRON(3+) SALT (3:2)
	E	10031-68-1	SULFURIC ACID, THALLIUM SALT
		10031-87-6	ACETIC ACID, 2-ETHYLBUTYL ESTER
		10034-81-8	PERCHLORIC ACID, MAGNESIUM SALT
		10034-85-2	HYDROBIC ACID
	S	10034-93-2	HYDRAZINE, SULFATE (1:1)
		10035-10-6	HYDROBROMIC ACID
	E	10035-32-4	PHOSPHORIC ACID, DISODIUM SALT, DODECANHYDRATE
		10042-76-8	NITRIC ACID, STRONTIUM SALT
	E	10043-01-3	SULFURIC ACID, ALUMINUM SALT (3:2)
	E	10045-88-3	SULFURIC ACID, AMMONIUM IRON(2+) SALT (3:2:1)
	E	10045-84-0	NITRIC ACID, MERCURY(2+) SALT
	S	10048-13-2	7H-FURO[3',2':4,5]FURO[2,3-C]XANTHEN-7-ONE, 3A,12C-DIHYDRO-6-HYDROXY-4-METHOXY-, (3A-CIS)-
		10049-04-4	CHLORINE OXIDE (Cl ₂ O)
	E	10049-05-8	CHROMIUM CHLORIDE (CrCl ₃)
	E	10089-74-8	NITRIC ACID, LEAD(2+) SALT

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E 10101-53-8	SULFURIC ACID, CHROMIUM(3+) SALT (3:2)
E 10101-63-0	LEAD IODIDE (PB12)
E 10101-89-0	PHOSPHORIC ACID, TRISODIUM SALT, DODECAHYDRATE
E 10102-06-4	URANIUM, BIS(NITRATO-O)DIOXO-, (T-4)-
E 10102-18-8	SELENIOS ACID, DISODIUM SALT
E 10102-43-9	NITROGEN OXIDE (NO)
E 10102-44-0	NITROGEN OXIDE (NO2)
E 10102-46-4	ARSENIC ACID (H3ASO4), LEAD(4+) SALT (3:2)
10108-56-2	CYCLOHEXANAMINE, N-BUTYL-
ES 10108-64-2	CAESIUM CHLORIDE (CDCL2)
ES 10124-36-4	SULFURIC ACID, CAESIUM SALT (1:1)
E 10124-50-2	ARSONIC ACID, POTASSIUM SALT
E 10124-56-8	METAPHOSPHORIC ACID (H6P6O18), HEXASODIUM SALT
10137-74-3	CHLORIC ACID, CALCIUM SALT
10137-80-1	BENZENAMINE, N-(2-ETHYLHEXYL)-
10138-74-6	ETHANOL, 2-[(2-AMINO-1-METHYLETHYL)AMINO]-
E 10140-65-5	PHOSPHORIC ACID, DISODIUM SALT, HYDRATE
10141-05-6	NITRIC ACID, COBALT(2+) SALT
E 10182-30-0	SULFUROUS ACID, MONOAMMONIUM SALT
E 10186-04-0	SULFUROUS ACID, DIAMMONIUM SALT
10213-74-8	PROPANOIC ACID, 3-(2-ETHYLBUTOXY)-
10265-82-6	PHOSPHORAMIDOTHIOIC ACID, O,S-DIMETHYL ESTER
10284-33-4	BORANE, TRIBROMO-
E 10361-29-2	CARBONIC ACID, AMMONIUM SALT
E 10361-88-4	PHOSPHORIC ACID, TRISODIUM SALT, DECAHYDRATE
E 10361-85-2	CHLORIC ACID, ZINC SALT
10377-60-2	NITRIC ACID, MAGNESIUM SALT
E 10380-29-7	COPPER(2+), TETRAAMINE-, SULFATE (1:1), MONOHYDRATE
E 10415-75-5	NITRIC ACID, MERCURY(1+) SALT
E 10421-48-4	NITRIC ACID, IRON(3+) SALT
10844-63-5	2-BUTENOIC ACID, ETHYL ESTER
10844-72-6	NITROGEN OXIDE (N2O4)
10844-73-7	NITROGEN OXIDE (N2O3)
10848-89-0	SULFUR CHLORIDE (SCL2)
10848-01-7	SULFUR FLUORIDE (SF6)
E 10888-01-9	CHROMIC ACID (H2Cr2O7), DISODIUM SALT
ES 10888-85-6	ETHANAMINE, N-METHYL-N-NITROSO-
ES 11086-82-5	AROCLOX 1260
ES 11087-68-1	AROCLOX 1284
ES 11088-02-8	NICKEL OXIDE
11088-06-2	SILICIC ACID, ETHYL ESTER
E 11104-28-2	AROCLOX 1221
E 11113-74-8	NICKEL HYDROXIDE
ES 11118-70-3	CHROMIUM LEAD OXIDE
11135-81-2	POTASSIUM ALLOY, KEMBASE, K,NA
E 11141-16-5	AROCLOX 1222
12001-26-2	MICA-GROUP MINERALS
S 12001-28-4	CROCIDOLITE
S 12001-29-6	CHRYSOYLITE (H3Si2(SiO4)2.H2O)
E 12002-03-8	C.I. PIGMENT GREEN 21
12002-26-6	SILICIC ACID, METHYL ESTER
12033-48-7	NITROGEN OXIDE (NO3)
ES 12035-72-2	NICKEL SULFIDE (Ni3S2)
E 12044-79-0	ARSIKO, THIOXO-
12076-68-2	ALUMINUM, TRICHLOROETHYLENE-
12078-68-1	MANGANESE, TRICARBONYL((ETA,5-2,4-CYCLOPENTADIEN-1-YL)-
12108-12-3	MANGANESE, TRICARBONYL((1,2,3,4,5-ETA)-1-METHYL-2,4-CYCLOPENTADIEN-1-YL)-
12124-87-8	AMMONIUM BROMIDE ((NH4)BR)
E 12125-01-6	AMMONIUM FLUORIDE ((NH4)F)
E 12125-02-9	AMMONIUM CHLORIDE ((NH4)CL)
E 12125-76-1	AMMONIUM SULFIDE ((NH4)2S)
ES 12172-72-5	ASBESTOS, GRUNERTITE
12363-85-3	ALUMINUM, TRIBROMOTRIMETHYLDI-
12327-32-1	SILICON CARBIDE (SiC3)
12389-08-9	BENZENEDIOL
12415-34-8	EMERY
12542-88-7	ALUMINUM, TRICHLOROETHYLENE-
12604-88-8	VANADIUM ALLOY, BASE, V.C.FE (FERROVANADIUM)

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	12612-47-4	LEAD CHLORIDE
	12672-29-6	120CLOR 1242
	12674-11-2	AROCLOM 1016
	12680-48-7	CHROMIUM SODIUM OXIDE
	12768-82-0	C.I. BASIC ORANGE 15
	12771-08-3	SULFUR CHLORIDE
	13010-47-4	UREA, N-(2-CHLOROETHYL)-N'-CYCLOHEXYL-N-NITROSO-
	13057-78-8	1,3,5-TRIAZINE-2,4,6-(1H,3H,5H)-TRIONE, 1-CHLORO-
	13106-47-3	CARBONIC ACID, BERYLLIUM SALT (1:1)
	13121-70-5	STANNANE, TRICYCLOHEXYLMYDROXY-
	13138-45-8	NITRIC ACID, NICKEL(2+) SALT
	13171-21-6	PHOSPHORIC ACID, 2-CHLORO-3-(DIETHYLAMINO)-1-METHYL-3-OXO-1-PROPENYL DIMETHYL ES
	13194-48-4	TER
	13195-76-1	PHOSPHORODITHIOIC ACID, O-ETHYL S,S-DIPROPYL ESTER
	13256-22-9	BORIC ACID (H3BO3), TRIS(2-METHYLPROPYL) ESTER
	13327-32-7	GLYCINE, N-METHYL-N-NITROSO-
	13360-63-9	BERYLLIUM HYDROXIDE (BE(OH)2)
	13387-24-5	1-BUTANAMINE, N-ETHYL-
	13410-72-5	GYPSON (Ca(SO4).2H2O)
	13423-61-5	BENZENAMINE, 4-ETHOXY-N-[(3-NITRO-2-FURANYL)METHYLENE]-
	13446-10-1	CHROMIC ACID (H2CrO4), MAGNESIUM SALT (1:1)
	13463-38-3	PERMANGANIC ACID (HMNO4), AMMONIUM SALT
	13463-40-6	NICKEL CARBONYL (Ni(CO)4), (T-4)-
	13463-67-7	IRON CARBONYL (Fe(CO)5), (TB-5-11)-
	13464-37-4	TITANIUM OXIDE (TiO2)
	13477-00-4	ARSENIOUS ACID, TRISODIUM SALT
	13494-80-9	CHLORIC ACID, BARIUM SALT
	13510-48-1	TELLURIUM
	13530-65-9	SULFURIC ACID, BERYLLIUM SALT (1:1)
	13530-68-2	CHROMIC ACID (H2CrO4), ZINC SALT (1:1)
	13560-89-1	CHROMIC ACID (H2Cr2O7)
	13587-89-4	ACETIC ACID, (2,4,6-TRICHLOROPHENOXY)-, SODIUM SALT
	13598-15-7	NITRIC ACID, BERYLLIUM SALT
	13598-26-0	PHOSPHORIC ACID, BERYLLIUM SALT (1:1)
	13717-00-5	PHOSPHORIC ACID, BERYLLIUM SALT (2:3)
	13746-89-9	MAGNESITE (MgCO3)
	13765-18-0	NITRIC ACID, ZIRCONIUM(4+) SALT
	13814-96-5	CHROMIC ACID (H2CrO4), CALCIUM SALT (1:1)
	13823-29-5	BORATE(1-), TETRAFLUORO-, LEAD(2+) (3:1)
	13826-83-0	NITRIC ACID, THORIUM(4+) SALT
	13889-92-4	BORATE(1-), TETRAFLUORO-, AMMONIUM
	13952-64-6	CARBONCHLORIDOTHIOIC ACID, 3-PROPYL ESTER
	13967-01-4	2-BUTANAMINE
	14017-41-5	1-PROPENE, TRIMER
	14018-98-2	SALFANIC ACID, COBALT(2+) SALT (2:1)
	14216-75-2	CHROMIC ACID (H2Cr2O7), ZINC SALT (1:1)
	14298-49-2	NITRIC ACID, NICKEL SALT
	14307-33-6	ETHANEDIOIC ACID, AMMONIUM SALT
	14307-35-8	CHROMIC ACID (H2Cr2O7), CALCIUM SALT (1:1)
	14464-46-1	CHROMIC ACID (H2CrO4), LITHIUM SALT
	14484-64-1	CRISTOBALITE (SiO2)
	14567-73-8	IRON, TRIS(DIMETHYL-CARBAMODITHIOATE-S,S')-, (OC-6-11)-
	14567-73-8	TREMOLITE
	14639-97-5	ZINCATE(3-), TETRACHLORO-, DIAMMONIUM, (T-4)-
	14639-98-6	ZINCATE(3-), PENTACHLORO-, TRIAMMONIUM
	14644-61-2	SULFURIC ACID, ZIRCONIUM(4+) SALT (2:1)
	14686-13-6	2-HEPTENE, (E)-
	14807-96-6	TALC (Mg3Si2O5(OH)4)
	14808-60-7	QUARTZ (SiO2)
	14861-06-4	2-BUTENOIC ACID, ETHENYL ESTER
	14901-06-7	BETA-D-GLUCOPYRANOSIDE, (METHYL-2-O-ALCOXY)METHYL
	14977-61-8	CHROMIUM, DICHLORODIOXIDE-, (T-4)-
	15181-85-2	SILICIC ACID (H4SiO4), BERYLLIUM SALT (1:2)
	15468-22-3	TRIDYMITE (SiO2)
	15463-27-1	PLATINUM, DIAMINEDICHLORO-, (SP-4-2)-
	15489-18-0	SULFURIC ACID, AMMONIUM NICKEL(2+) SALT (2:2:1)
	15505-86-9	NITRIC ACID, URANIUM SALT
	15550-66-0	PHENOL, 2,3,4-TRICHLORO-

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V	ES	CAS NO. (A)	GAS PREFERRED CHEMICAL NAME (B)
		15980-15-1	1,4-OXATHIANE
	E	16065-83-1	CHROMIUM, ION (CR3+)
	S	16071-86-6	CUPRATE(2-), [5-[[4'-[[[2,6-DIHYDROXY-3-[(2-HYDROXY-5-SULFOPHENYL)AZO]PHENYL)AZO] [1,1'-BIPHENYL]-4-YL]AZO]-2-HYDROXYBENZOATO(4-)]-, DISODIUM
		16219-75-3	BICYCLO[2.2.1]HEPT-2-ENE, 8-ETHYLIDENE-
	ES	16337-84-1	CARBONIC ACID, NICKEL SALT
	ES	16543-55-8	PYRIDINE, 3-(1-NITROSO-2-PYRROLIDINYL)-, (S)-
	S	16568-02-8	HYDRAZINECARBOXYALDEHYDE, ETHYLIDENEMETHYL-
	E	16721-80-8	SODIUM SULFIDE (NA(SH))
	E	16752-77-5	ETHANIMIDOTHIOIC ACID, N-[[[(METHYLAMINO)CARBONYL]OXY]-, METHYL ESTER
		16842-03-8	COBALT, TETRACARBONYLHYDRO-
		16853-85-3	ALUMINATE(1-), TETRAHYDRO-, LITHIUM, (T-4)-
	E	16871-71-8	SILICATE(2-), HEXAFLUORO-, ZINC (1:1)
	E	16819-19-0	SILICATE(2-), HEXAFLUORO-, DIAMMONIUM
	E	16823-85-8	ZIRCONATE(2-), HEXAFLUORO-, DIPOTASSIUM, (OC-6-11)-
		16884-48-8	FLUORIDE
		17014-71-0	POTASSIUM PEROXIDE (K2(O2))
	ES	17237-93-3	CARBONIC ACID, NICKEL(2+) SALT (2:1)
		17702-41-9	DECABORANE(14)
		17804-35-2	CARBAMIC ACID, [1-[(BUTYLAMINO)CARBONYL]-1H-BENZIMIDAZOL-2-YL]-, METHYL ESTER
		18351-85-4	PHOSPHORIC ACID, MONO(2-METHYLPHENYL) ESTER
	ES	18454-12-1	LEAD CHROMATE OXIDE (PB2(CRO4)O)
	E	18540-29-9	CHROMIUM, ION (CR6+)
	ES	18833-66-4	D-GLUCOSE, 2-DEOXY-2-[[[(METHYLNITROSDAMINO)CARBONYL]AMINO]-
		19287-45-7	DIBORANE(6)
		19394-40-2	4-UNDECANONE, 3-METHYL-
		19624-22-7	PENTABORANE(9)
	E	20816-12-0	OSMIUM OXIDE (OSO4), (T-4)-
	ES	20830-81-3	8,12-NAPHTHACENEDIONE, 8-ACETYL-10-[(3-AMINO-2,3,6-TRIDEOXY-.ALPHA.-L-LYXO-HEXOPYRANOSYL)OXY]-7,8,9,10-TETRAHYDRO-6,8,11-TRIHYDROXY-1-METHOXY-, (8-CIS)-
	E	20859-73-8	ALUMINUM PHOSPHIDE (ALP)
		21087-64-8	1,2,4-TRIAZIN-3(4H)-ONE, 4-AMINO-6-(1,1-DIMETHYLETHYL)-3-(METHYLTHIO)-
		21351-79-1	CESIUM HYDROXIDE (CS(OH))
		22224-82-6	PHOSPHORANIDIC ACID, (1-METHYLETHYL)-, ETHYL 8-METHYL-4-(METHYLTHIO)PHENYL ESTER
	E	22541-79-3	CHROMIUM, ION (CR2+)
	S	23214-82-8	8,12-NAPHTHACENEDIONE, 10-[(3-AMINO-2,3,6-TRIDEOXY-.ALPHA.-L-LYXO-HEXOPYRANOSYL)OXY]-7,8,9,10-TETRAHYDRO-6,8,11-TRIHYDROXY-8-(HYDROXYACETYL)-1-METHOXY-, (8S-CIS)-
	E	23850-58-8	BENZANIDE, 3,8-DICHLORO-N-(1,1-DIMETHYL-2-PROPYNYL)-
		25013-15-4	BENZENE, ETHYLMETHYL-
		25103-88-6	TERT-DODECANETHIOL
		25136-88-4	1,4-DIOXANE, DIMETHYL-
		25154-52-3	PHENOL, MONYL-
	E	25154-54-6	BENZENE, DINITRO-
	E	25154-56-8	PHENOL, NITRO-
	E	25155-30-0	BENZENESULFONIC ACID, DODECYL-, SODIUM SALT
		25167-70-8	PENTENE, 2,4,4-TRIMETHYL-
	E	25167-82-2	PHENOL, TRICHLORO-
		25167-83-5	BENZENE, CHLORONITRO-
		25168-08-2	BENZENE, CHLOROMETHYL-
	E	25168-26-7	ACETIC ACID, (2,4-DICHLOROPHENOXY)-, ISOOCTYL ESTER
		25265-71-8	PROPANOL, ETHYL-
	S	25316-40-8	8,12-NAPHTHACENEDIONE, 10-[(3-AMINO-2,3,6-TRIDEOXY-.ALPHA.-L-LYXO-HEXOPYRANOSYL)OXY]-7,8,9,10-TETRAHYDRO-6,8,11-TRIHYDROXY-8-(HYDROXYACETYL)-1-METHOXY-, (8S-CIS)-
	E	25321-14-8	BENZENE, METHYLDINITRO-
	E	25321-23-6	BENZENE, DICHLORO-
		25339-64-4	HEPTENE
		25360-10-5	TERT-NONANETHIOL
		25495-80-3	HEXANE, CHLORO-
		25512-65-6	2H-PYRAN, DIMETHYL-
	E	25550-58-7	PHENOL, DINITRO-
		25551-13-7	BENZENE, TRIMETHYL-
		25567-67-3	BENZENE, CHLORODINITRO-
		25639-42-3	CYCLOHEXANOL, METHYL-
		26084-13-3	8-OCTADECANOIC ACID (2)-, COMPO. WITH 1-BUTANAMINE (1:1)
	E	26264-06-3	BENZENESULFONIC ACID, DODECYL-, CALCIUM SALT
		26499-65-0	PLASTER OF PARIS

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YES	CAS NO. (A)	CAS PREFERRED CHEMICAL NAME (B)
	26628-22-8	SODIUM AZIDE (NAIN3)
	27725-64-2	ISDOCTANE
	26952-21-6	ISDOCTANOL
E	26852-23-8	1-PROPENE, DICHLORO-
E	27176-87-0	BENZENESULFONIC ACID, DODECYL-
	27215-85-8	NONENE
E	27323-41-7	BENZENESULFONIC ACID, DODECYL-, COMPD. WITH 2,2',2''-NITRILOTRIS[ETHANOL] (1:1)
	27417-39-6	1H-PYRROLE, METHYL-
E	27774-13-6	VANADIUM, OXO(SULFATO(2-)-O)-
E	28300-74-5	ANTIMONATE(2-), BIS(MJ.-(2,3-DIHYDROXYBUTANEDIOATO(4-)-O1,O2,O3,O4))O1-, DIPOTA SIUM, TRIMYDRATE, STEREOISOMER
	28314-03-6	ACETAMIDE, N-8H-FUOREN-1-YL-
S	28434-86-8	BENZENAMINE, 4,4'-OXYBIS(2-CHLORO-
	28983-37-1	TERT-TETRADECANETHIOL
	28984-85-2	1,1'-BIPHENYL, NITRO-
	29181-52-4	BENZENAMINE, AR-4-METHOXY-
	30030-25-2	BENZENE, (CHLOROMETHYL)ETHENYL-
	30174-88-4	TERT-DECANETHIOL
E	30525-88-4	PARAFORMALDEHYDE
	30714-78-4	CARBOIC ACID, BUTYL ETHYL ESTER
	31384-84-4	ISOMEPTANE
	32280-46-8	1,3-BUTANEDIAMINE, N,N'-DIETHYL-
E	32534-89-8	PROPANOIC ACID, 3-(2,4,6-TRICHLOROPHENOXY)-, ISOOCTYL ESTER
	32748-84-3	PENTANAL, 2,3-DIMETHYL-
E	33213-63-9	6,8-METHANO-2,4,3-BENZODIOXATHIEPIN, 6,7,8,9,10,10-HEXACHLORO-1,5,8A,6,9,8A-HEXA HYDRO-, 3-OXIDE, (3.ALPHA.,8A.ALPHA.,6.BETA.,9.BETA.,8A.ALPHA.)-
	34580-84-8	PROPANOL, (2-METHOXYMETHYLETHOXY)-
ES	34731-32-3	CARBAMOITHIOIC ACID, 1,3-ETHANEDIYL ESTER
ES	35089-00-0	PHOSPHORIC ACID, BERYLLIUM SALT
	35400-43-2	PHOSPHORODITHIOIC ACID, O-ETHYL O-[4-(METHYLTHIO)PHENYL] S-PROPYL ESTER
E	36478-76-8	URANIUM, BIS(NITRATO-O,O')DIOXO-, (OC-6-11)-
E	37211-08-8	NICKEL CHLORIDE
	37248-34-3	POTASSIUM SULFIDE
	37264-86-3	COBALT CARBONYL
	37273-81-9	METALDEHYDE
	37283-14-4	BISMUTH TELLURIDE
S	39186-41-7	1,3-BENZENEDIAMINE, 4-METHOXY-, SULFATE (1:1)
ES	39413-47-3	SILICIC ACID, BERYLLIUM ZINC SALT
E	39638-32-8	PROPANE, 2,2'-OXYBIS(2-CHLORO-
	41444-43-3	SEC-PENTANAMINE
	42380-89-2	PHENOL, 2-CHLORO-4,6-BIS(1,1-DIMETHYLPROPYL)-
S	51004-61-6	AF 2 (FOAMING AGENT)
	51580-86-0	1,3,5-TRIAZINE-2,4,6-(1H,3H,5H)-TRIONE, 1,3-DICHLORO-, SODIUM SALT, DIHYDRATE
E	51787-44-1	BENZ[C]ACRIDINE, 7,8,9,11-TETRAMETHYL-
E	51810-70-9	ZINC PHOSPHIDE
	51848-86-4	BORIC ACID, ETHYL ESTER
E	52628-25-8	AMMONIUM ZINC CHLORIDE
E	52740-16-6	ARSONIC ACID, CALCIUM SALT (1:1)
E	53467-11-1	POLY(OXY(METHYL-1,2-ETHANEDIYL)), .ALPHA.-(2,4-DICHLOROPHENOXY)ACETYL)-.OMEGA.- BUTOXY-
E	53469-21-9	AROCLOX 1242
E	53486-18-4	ACETIC ACID, SEC-PENTYL ESTER
S	53788-46-8	CROCIDOLITE (P2H42(S103)8)
S	53894-28-3	PHENOL, (((2-AMINOETHYL)AMINO)METHYL)-
	54546-72-3	BORON OXIDE
E	54880-82-2	BENZENESULFONIC ACID, 4-DODECYL-, COMPD. WITH 1-AMINO-2-PROPANOL (1:1)
	54872-87-3	1-PENTANOL, METHYL-
S	55738-84-0	METHANITRIBANIDE, N,N-DIMETHYL-N'-[5-[2-(5-NITRO-2-FURANYL)ETHENYL]-1,3,4-OXADIAZ OL-2-YL]-, (E)-
ES	56083-45-8	SELENIUM SULFIDE
E	56189-08-4	LEAD, BIS(OCTADECANOATE)BIS(OXO)-
ES	56800-38-7	SILICIC ACID, BERYLLIUM SALT
	59255-75-8	NAPP
S	59836-65-1	FIREMASTER BP 6
S	61108-31-8	CROCIDOLITE (P2H42(S103)8)
S	62480-08-0	5H-PYRIDO[4,3-b]NEOL-3-AMINE, 1,4-DIMETHYL-
S	62480-07-1	5H-PYRIDO[4,3-b]NEOL-3-AMINE, 1-METHYL-
	63283-80-7	PROPANE, 2,2'-OXYBIS(DICHLORO-

•-ANY COMPOUND OF THIS SUBSTANCE
IS ALSO AN ENVIRONMENTAL HAZARD
E-ENVIRONMENTAL HAZARD
S-SPECIAL HAZARDOUS SUBSTANCE

HAZARDOUS SUBSTANCE LISTS
HAZARDOUS SUBSTANCE SURVEY FORM
PART II
PRINTED BY CAS NO.

ENTER X TO INDICATE SUBSTANCE PRESENT AT WORKPLACE

CAS NO. (A)	CAS PREFERRED CHEMICAL NAME (B)
64037-54-3	1-BUTENE, 3,4-DICHLORO- (1,2-)
53994-69-1	FLUE GASES, FERROUS METAL, RAST FURNACE
65996-91-0	DISTILLATES (COAL TAR), UPPER
65997-15-1	CEMENT, PORTLAND, CHEMICALS
68334-28-1	OILS, VEGETABLE, HYDROGENATED
68425-31-0	GASOLINE (NATURAL GAS), NATURAL
68476-26-6	FUEL GASES
68476-25-7	PETROLEUM GASES, LIQUEFIED
73090-68-3	NAPHTHALENE, (1,1-DIMETHYLETHYL)-1,2,3,4-TETRAHYDRO-
73090-68-4	PHENOL, CHLORO-4-(1,1-DIMETHYLPROPYL)-
73513-30-1	PENTANAL, METHYL-
S 75364-04-4	SILICIC ACID (H6S1207), COBALT(2+) MAGNESIUM SALT (1:2:1)
80466-34-8	2,4-HEXADIENAL
86280-81-5	GASOLINE
S 81681-63-8	4H-1-BENZOPYRAN-4-ONE, 6-(2,3-DIHYDROXY-3-METHYLBUTYL)-3-(2,4-DIHYDROXYPHENYL)-7-HYDROXY-

HAZARDOUS SUBSTANCES	1,880
ENVIRONMENTAL HAZARDS	683
SPECIAL HAZARDOUS SUBSTANCES	303

construction, and conforming to
Board of Health.

Backfilling of pipe trenches shall be done only with sand or clean earth
free from cinders; only clean sand shall be placed within 12" of any iron
or steel pipe.



WORK TO BE EXCLUDED FROM THIS CONTRACT

All work shown on this drawing except the two sewage pumping stations
(each complete with all necessary equipment and the pipes through shaft),
will be done by others and shall be excluded from this contract. See letter
of April 18, 1957 from F.H. Simpson to The Ellington Miller Co. etc.

NOTE: 1. is Dwg. superseded Dwg. No 92532
Sheet 7 dated March 22, 1957 due to yard
track changes etc.

Revision - New Issue B - May 21, 1957
Added specifications, notes, and detail
of cleanouts. Relocated Dormitory Bldg.

Revision - New Issue C - June 17, 1957
Added pumping stations "C" at 5177.15, "D"
near Main Yard Office and "E" at Diesel Bldg.
Changed gravity lines to force mains from
"D" and "E" to Pump Sta. "B", omitting manholes. Change
d elevations of discharge lines from new
pumping stations. Connected Wash Track Service
Bldg. to sewer system, and omitted septic
tank and absorption field. Line moved to
south of E.B. Freight Track from 5180 to 5136
approximately.

Revision - Issue D - August 12, 1957
Relocated Bldg. #17 and Septic Tank etc.
Added Detail "A" locating Pumping Station "E"
Relocated Sewer for Bldg. #6 account Car Cleaning Yd. changes

SANITARY SEWAGE FACILITIES - I

NEW YORK CENTRAL SYSTEM ELKHART YARD ELKHART IND.

Engineering Dept.
Scale as Indicated

New York N.Y. May 14, 1957
Issue D (Aug. 12, 1957)

Mech. & Elect. Engineer

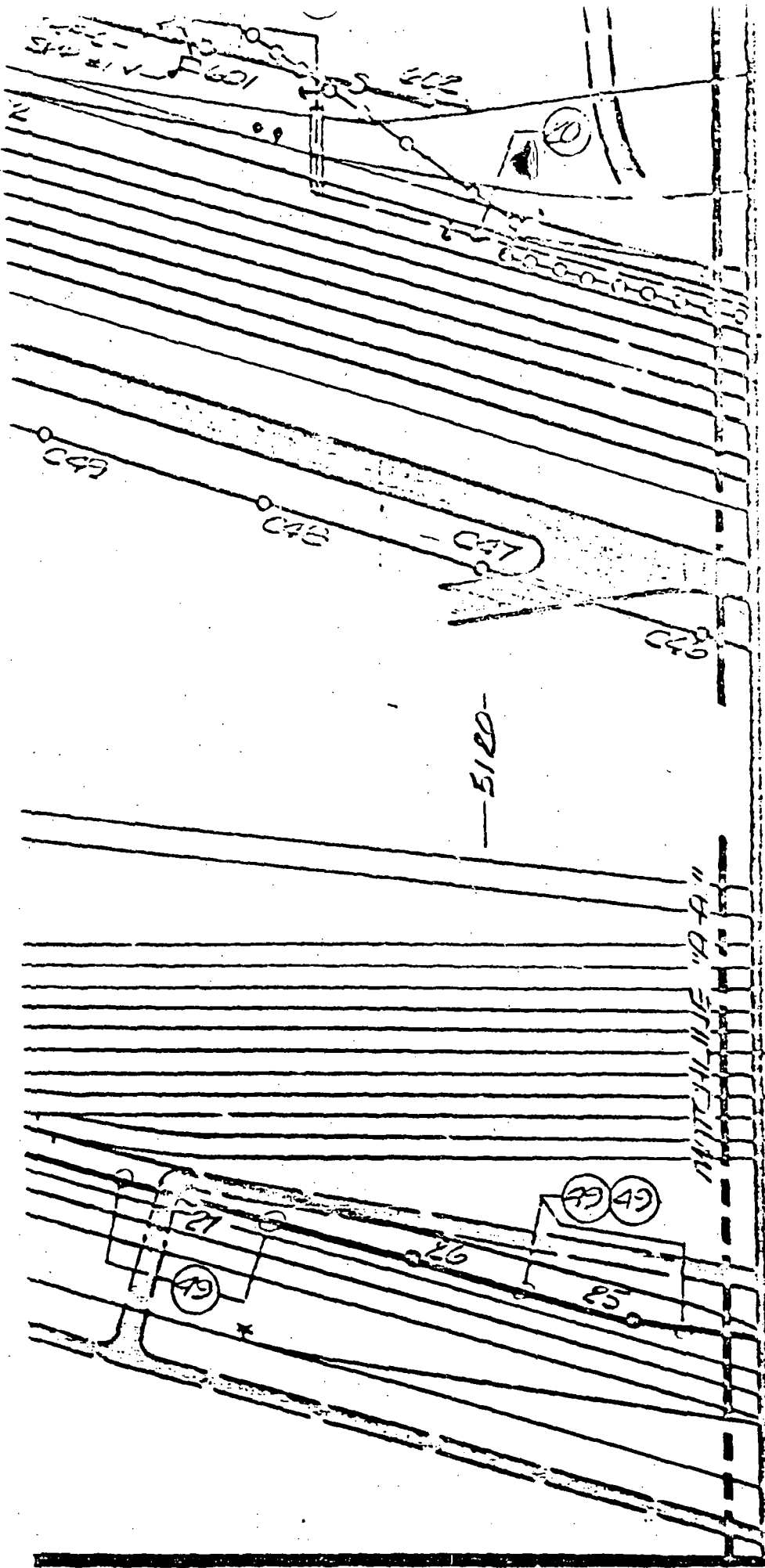
Assistant Chief Engineer

Approved:

Chief Engineer

U 5846

92062



signature

PROJECT TITLE:

PLAINTIFF'S
EXHIBIT
5 11-10-92
W. Martin

ELKHART YARD
IMPROVEMENTS
ELKHART, INDIANA
POWER DISTRIBUTION

SHEET TITLE:

PLAN
STATION 5121.2 TO
STATION 5152

ECG: TFP	CF: 122
CR: + 122	IF:
DATE: AUGUST 17, 1979	
PLAN NUMBER: 46763	
SCALE: 1" = 100'-0"	
SHEET NUMBER: E-2 = 12	

NF 128859

CO 08844